

# E-MAGAZINE

MARCH 2023



# A Message From Guidely To All Serious Bank Aspirants

*Hai all,*

**O**ur Guidely platform has been doing a great job for the past eight years in supporting the banking aspirants. In this beautiful journey, we have been providing quality mock test packages, bundle PDF courses, and various other study materials at affordable prices. This journey will continue for the upcoming years to uplift all the banking aspirants.

Lakhs of students come into this competition with a passion to become bankers. In this battle, a majority of people have been starving for success for a long period of time. They have been facing failures for many years. Due to continuous failures, many are thinking of quitting this competition.

In reality, success will not come to you overnight. You must handle your failures in a calm and composed manner. More importantly, you have to learn more from your failures. Only after a fine-tuned practice and a perfect preparation for the long term can you attain success. In this period, you have to be motivated, work hard, and use smart strategies to find progress in your success journey.

For that, Guidely will provide you with an enormous amount of quality study materials. You can rely on Guidely for standard mock test packages, bundle PDFs, and other materials at affordable price ranges. The only thing you have to do is follow us and work hard with a hundred percent hope. Guidely will end your journey with fruitful success. So, don't feel bad for your failures. Guidely will show you the best ways to crack the upcoming bank exams.



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# SUCCESS STORY

**Name** : Priyanka Rani  
**Email ID** : ranipriyanka2k18@gmail.com  
**DOB** : 25-10-2000  
**State** : Punjab  
**Edu Qualification** : B.Com graduate  
**Final Selection** : RRB Office Assistant  
 & SBI Junior Associate



**1**

## What is your special strategy that you followed to crack the bank exam?

My strategy is Hardwork+ Regularity+ Task Completion+ Analysis of mistakes + Focus etc. Moreover ..a fixed schedule to complete in a day and prepares content above the level of exam i.e. Mocks, Quizzes, Calculation etc.

**2**

## What would you advise the banking aspirant to prepare seriously for bank exams?

Something which I can say..

Government job preparation demands patience, Smart work and positivity.

When we decide to go for Banking preparation, then we have to set our mind accordingly that whatever happens, how many times we fail ....its doesn't matter.

The only thing that matters is our dedication for cracking these Banking Exams.

When we fail in any exam, don't forget our failure and remember what is the reason of our failure and try to avoid in next exam.

Learn from mistakes that we make in previous exams.

Be ready for each type of result i.e. Positive OR Negative.

Keep Patience.

Keep working hard.

### 3 What is the contribution of Guidely to your success?

I am thankful to the whole Guidely team from the bottom of my heart for their efforts. The whole Guidely team helps a lot in my banking preparation and the most important thing is that Guidely provides all mocks, PDFs, materials, and quizzes etc. at that time when we really need it. Mocks are exam-oriented and at that time when 2 days are left in exam shows us where we stand and our rank in competition..and also we can analyse our mistakes in that time period..Moreover content of mock is equal or higher than exam..here benefit of high quality content is that we don't panic in exam if the exam level comes tougher than previous year... and I also get time to time guidance regarding what should be the strategy during exam attemptation and also at the time of interview.... I really thank to the whole Guidely team bcs it provides a lot of material at free of cost which also helps me bcs I'm not able to buy paid material bcs of weak financial condition of my family ...this is a part of words which I want to say ...I have much more to say ..thanku Guidely team

### 4 What is your real feeling after achieving your dream bank job?

I am very happy and feeling very proud after getting a government job...and heartily thankful to my parents and teachers to support me in this journey.

### 5 To whom will you dedicate your success ?

I dedicate my success to my parents..both Mumma and Papa ..bcs I learn the spirit of doing hardwork from my parents ..inspite of this ..struggle of getting government job in bank is not of only me ...my parents also struggle with me ...and support me ...Thanku Mumma Papa..



# BOOSTER DOSE

## MARCH 2023



**1** **World Wildlife day 2023 is celebrated on March 3rd, 2023.** World Wildlife Day 2023 theme is **“Partnerships for wildlife conservation.”.**

This aims to draw attention to the conservation of some of the most severely endangered species of Wild animals and plants.



**5** **A new initiative called ‘beggar-free city’ has been started in Nagpur, Maharashtra.** It is a joint effort of Nagpur City police and Nagpur

Municipal Corporation’s (NMC) welfare department.



**2** **India’s unemployment rate dropped to a five-year low in July-June 2021-22 to 4.1 per cent,** according to the latest annual **Periodic Labour**

**Force Survey (PLFS),** released by the **National Statistical Office (NSO).**



**6** **Central Railway has achieved complete electrification of its 3,825 kilometers long broad gauge network.** This will reduce more

than 5 lakh tonnes of carbon footprints annually. It will help in savings of 1670 crore rupees.



**3** **United Nations Development Programme (UNDP) and the NITI Aayog hosted a hackathon with young people from across**

the world to contribute ideas and innovations to promote sustainable living and climate-positive behaviour as part of the Government of India’s Mission LiFE.



**7** **NTPC, the country’s largest integrated energy utility, has started commercial operation of first Unit of 660 MW at North Karanpura (3\*660**

**MW), in Jharkhand.**



**4** **World’s first 200-meter-long Bamboo Crash Barrier has been installed on Vani-Warora Highway.** In Vidarbha, 200-meter-

long Bamboo Crash Barrier has been installed on the Vani-Warora Highway. **This Bamboo Crash Barrier has been named ‘Bahu Balli’.**



**8** **Prime Minister Narendra Modi inaugurated the “longest railway platform in the world” at Shri Siddharoodha**

Swamiji Hubballi Station of Karnataka. It is a 1,507 m long platform which has been built at a **cost of about Rs 20 crore.**



**9** Nitin Gadkari showcased 100% methanol-powered buses that will be run by Bangalore Metropolitan Transport Corporation (BMTC). The buses will be operated with methanol blended fuel as part of Mission Clean Energy.



**15** The Asian Development Bank (ADB) has agreed in principle to provide Rs 1,311.20 crore under phase-1 of the proposed infrastructure development investment programme in Himachal Pradesh (HP) to strengthen tourism infrastructure in HP.



**10** Union Minister of State for Tribal Affairs, Renuka Singh Saruta inaugurated the Mara Tribal Girls' Hostel in Lunglei in Mizoram to protect women's dignity and their rights.



**16** India hosted the first meeting of the Governing Board of BIMSTEC Energy Centre (BEC) in Bengaluru, Karnataka. India made a presentation on establishing the BIMSTEC Energy Centre (BEC) in India in the premises of the Central Power Research Institute (CPRI), Bengaluru.



**11** The first Bharat Gaurav special tourist train will commence its journey from Secunderabad railway station. The Bharat Gaurav train service will be launched by the Indian Railway Catering and Tourism Corporation (IRCTC) on March 18.



**17** The first meeting of the G20 Anti-Corruption Working Group (ACWG) meeting is being organized in Gurugram, Haryana, India. It is under India's chairmanship, and Italy is the co-chair country.



**12** World Hearing Day is announced to be celebrated on March 3rd, 2023. World Hearing Day 2023 Theme is "Ear and hearing care for all!"

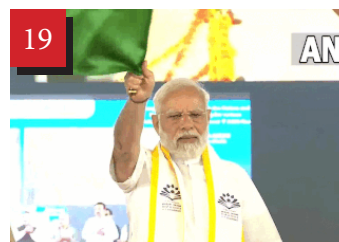
Let's make it a reality."



**18** International Women's Day 2023 is celebrated on 8th March 2023. The International Women's Day 2023 theme is "DigitALL: Innovation and technology for gender equality"



**13** Italian Prime Minister (PM) Ms Giorgia Meloni will be the chief guest and keynote speaker at the 8th Raisina Dialogue. Its theme is "Provocation, Uncertainty, Turbulence: Lighthouse in the Tempest".



**19** Denmark is the first country in the world to open an underwater burial site for Carbon dioxide (CO2) and also import the gas from other countries. Denmark inaugurated a project to store carbon dioxide 1,800 metres beneath the North Sea.



**14** Japan will provide loans worth Rs 2,288 crore to India for the Mumbai Trans-Harbour Link Project in Maharashtra and a Super-Specialty Cancer and Research Centre in Mizoram.



**20** Water Resources Minister, **Roshi Augustine**, launched a **robotic scavenger Bandicoot** under the Guruvayur Sewerage

Project in Thrissur district by the **Kerala Water Authority (KWA)**, as part of the 100-day action plan of the state government.



**25** The **Tamil Nadu (TN)** government has signed a **Memorandum of Understanding (MoU)** with the **United Nations Environment Programme (UNEP)** for implementing **Urban Cooling Programme** in TN to meet the objectives under the **Tamil Nadu State Action Plan on Climate Change**.

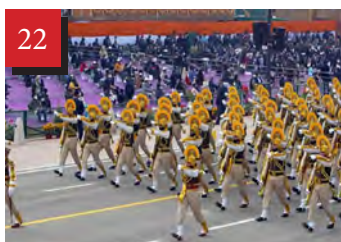


**21** The 31st edition of the **New Delhi World Book Fair (NDWBF)** is being organised by **National Book Trust (NBT)** in collaboration with India

Trade Promotion Organisation (ITPO). France has been designated as the Guest of Honor country at the World Book Fair. Theme of the **“International Book Fair”** is **“Elixir of Freedom”**.



**26** **Odisha** Steel and Mines Minister **Prafulla Mallick** has informed that **gold mines** have been found at different places in **3 districts of Odisha- Deogarh, Keonjhar and Mayurbhanj**.



**22** **CISF Raising Day** is celebrated on **10th March 2023**. India celebrates the **54th anniversary of CISF (Central Industrial**

**Security Force) Raising Day on March 10, 2023**.



**27** **Asia’s longest-ever** **cycle race** was flagged off from **Bakshi Stadium in Srinagar (J&K)** and will culminate at **Kanyakumari, Tamil Nadu (TN)**. The race has been accorded the status of **Asian Ultracycling Championship by the world Ultracycling Association**.



**23** **Karnataka** Chief Minister **Shri Basavaraj Bommai** has confirmed the construction of **India’s first Marina** which will

be constructed at **Byndoor** in the **Udupi district, Karnataka** To promote coastal tourism in **Karnataka**.



**28** **World Consumer Rights Day 2023** is observed all over the world on **March 15th, 2023**. Consumers International announced

that **World Consumer Rights Day 2023** theme is **“Fair Digital Finance”**.



**24** **Uttarakhand** will set up **India’s 1st government ‘Mother Milk Bank’** in the **state**. This facility will **bring** the nutrients of the

**mother’s milk** to be delivered to the newborn to a greater extent.



**29** **Madhya Pradesh** Chief Minister **Shri Shivraj Singh Chouhan** has launched a unique scheme namely **Mukhyamantri Ladli**

**Bahna Yojana** to enhance **women’s economic independence**, improving their health and nutrition status and expanding their influence over family decisions.





30

The **Yaoshang festival** has begun and will continue for 5 days in **Manipur**. The festival is celebrated by the **Meitei people** who are

predominantly **Hindu**.



31

The **Bumchu Festival** was celebrated in the **Tashiding Monastery**, located in the state of **Sikkim**. Bumchu Festival is the **Tashiding holy**

**water vase ritual**.



32

The **Keeladi museum** was inaugurated by Tamil Nadu (TN) **Chief Minister (CM) Shri M.K. Stalin** in the **Sivaganga district, Tamil Nadu**. To

showcase the **history of Tamils**, their heritage and culture and the exhibits kept in the facility include earthenware and brick structures.



33

A **tiger** and **tigress** were reintroduced in the **Madhav National Park (MNP)** in **Madhya Pradesh's (MP) Shivpuri district** in a bid to revive

the big cat population in the area. The tiger was transferred from **Satpura Tiger Reserve**, and the tigress was shifted from **Bandhavgarh Tiger Reserve in Madhya Pradesh**.



34

**Uttarakhand** has become **India's first state** to launch the **"Resham Keet Bima"** scheme to protect its **sericulturists**. In the first

phase of this pilot project, 200 sericulturists from 5 blocks of 4 districts.



35

The **Rajasthan government** approved the setting up of **India's first Behavioural lab at Jaipur, Rajasthan, India**. It will be set up at the Pa-

tel Bhawan at **Harish Chandra Mathur Rajasthan Institute of Public Administration (HCM-RIPA), Jaipur**.



36

**India's first tribal carbon-free village** will come up in **Bhiwandi, Maharashtra, India**. Union Rural Development Minister **Shri Giriraj**

**Singh**, who was on a tour of **Thane district**, has assured funds for this project.



37

The **Delhi government** is likely to announce a **mohalla bus scheme** for last-mile connectivity in the upcoming **Budget 2023-24**, among several

new initiatives to **modernise transport infrastructure in the Capital**.



38

**Private sector lenders IDFC First Bank Limited** and the **Federal Bank Ltd** partnered with the association of **microfinance institutions**

(**MFIs**) **Sa-Dhan** and Delhi-based fintech solutions provider **NextGen** to encourage feature phone users to use **UPI123Pay** to make digital payments.



39

**New India Assurance**, the largest non-life insurance company in the country, announced the launch of its **surety insurance bond business**. The state-run company became the **second insurer to offer** such bonds in the country.

The state-run company became the **second insurer to offer** such bonds in the country.



40

**R**BI has launched the Mission 'Har Payment Digital' on the occasion of the Digital Payments Awareness Week (DPAW) 2023. The

campaign theme is "Digital Payment Apnao, Auro ko bhi Sikhao" (Adopt digital payments and Also teach others).



45

**M**udra loans disbursement is likely to create an all-time record in the current financial year. Mudra loans disbursement in the current financial

year has surpassed the total disbursements of last year.



41

**Y**ES Bank has entered into a co-lending partnership with Aadhar Housing Finance Ltd to offer home loans at competitive interest

rates.



46

**I**n an initiative to promote Central Bank Digital Currency (CBDC), Kochi Metro Rail Limited (KMRL) has become the 1st metro

in India to accept digital currency in its parking facilities.



42

**A**ccording to the latest report by PayNearby in association with RBI Innovation Hub, Insurance penetration among women in rural

India remains a concern with only 1% insured and 29% aware of the insurance products offered.



47

**I**DFC Mutual Fund (MF) has rebranded itself as Bandhan Mutual Fund. The fund house's schemes will be renamed, with the word

'Bandhan' replacing 'IDFC' in each of them.



43

**A** Mega Currency Chest has been opened by Bandhan Bank in Kolkata, West Bengal. This is the Bank's third mega currency chest, the other two

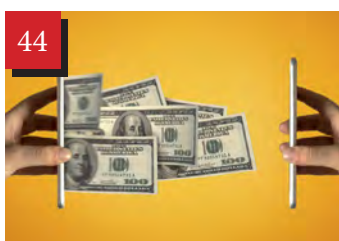
being in Patna and Guwahati.



48

**T**he 16th largest bank in the United States (US) Silicon Valley Bank (SVB), has been shut down by regulators due to the sudden shutdown

of Silvergate Capital Corp and the unmindful fundraising of SVB.



44

**P**roject Icebreaker, a joint initiative from the Bank for International Settlements and the central banks of Israel, Norway, and Sweden,

has successfully concluded a study on the potential benefits and challenges of using retail CBDC in international payments.



49

**S**tate regulators in the United States of America (USA) shut down New York-based Signature Bank after California authorities

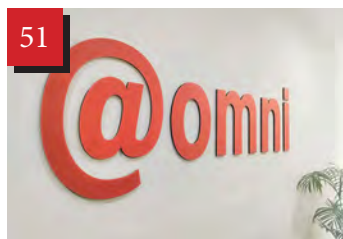
closed Silicon Valley Bank, marking the 3rd largest failure in US banking history.



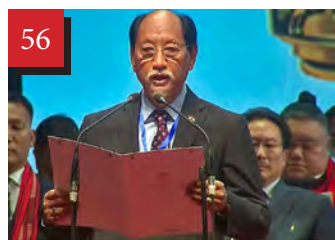
**50** The RBI and the Central Bank of the United Arab Emirates (CBUAE) signed an MoU to enhance cooperation and jointly enable innovation in financial products and services.



**55** The National Aeronautics and Space Administration (NASA) has picked a longtime solar scientist who heads its heliophysics division, Dr Nicola Fox to become the U.S. space agency's science chief – the first woman named to serve in the role.



**51** India's First Omnichannel Spending Platform, OmniCard has launched Unified Payments Interface (UPI) services without the need to link a Bank Account for its users.



**56** Nationalist Democratic Progressive Party (NDPP) of Nagaland leader Shri Neiphu Rio was sworn in as the Chief Minister (CM) of Nagaland for the 5th time in Kohima, Nagaland.



**52** A member of the Politburo of the Communist Party of Vietnam (CPV), Mr Vo Van Thuong, was elected as the new President of Vietnam by the National Assembly (NA) till the term ending 2026.



**57** National People's Party (NPP) chief Shri Conrad K Sagma took oath as the CM of Meghalaya for a second consecutive term in presence of PM Shri Narendra Modi.



**53** The ruling party candidate, Mr Bola Tinubu (70) has defeated vice president Mr Atiku Abubakar (opposition People's Democratic Party) to win the disputed presidential election in Nigeria.



**58** The Board of Directors of Tata Consultancy Services (TCS) has appointed Mr K Krithivasan as Chief Executive Officer (CEO) designate. He succeeded Mr Rajesh Gopinathan, who decided to step down to pursue other interests.



**54** Former bureaucrat Mr Shailesh Pathak has been appointed as the new Secretary General of the Federation of Indian Chambers of Commerce & Industry (FICCI) with effect from March 01, 2023.



**59** Surekha Yadav becomes Asia's first female locomotive pilot to operate the newly-introduced semi-high-speed Vande Bharata Express train. She operated Vande Bharat Express from Solapur to Chhatrapati Shivaji Maharaj Terminal (CSMT) in Maharashtra.



60

**Saraswati Samman 2022** awarded to Tamil writer **Sivasankari** for her book **Survya Vamsam**. It is a book of memoirs in the Tamil

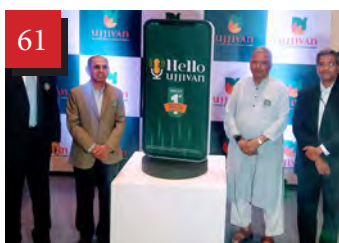
language and was published in 2019.



66

**Delhi's Indira Gandhi International Airport** has received the award for the **Best Airport in India and South Asia**, a report by the international

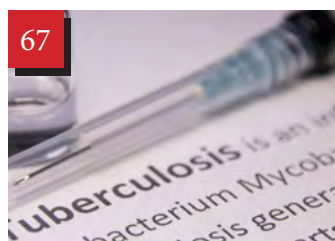
air transport rating organisation **Skytrax**. Singapore's **Changi Airport** is named the **World's Best Airport of 2023** followed by **Doha Hamad airport**.



61

**Hello Ujjivan app** has won **13th AGBA** in the "Innovation in Consumer Tech" category. 13th AGBA is an initiative of Aegis School

of Data Science.



67

The **IIT Madras** is collaborating with the **General Insurance Corporation of India (GIC Re)** to develop a urine-based

diagnosis or screening.



62

**Karnataka and Gujarat** are the top states in adopting **clean energy transition**. **Institute for Energy Economics and Financial Analysis**

(**IEEFA**) has published a joint report.



68

**India and Australia** signed a 'Framework Mechanism for Mutual Recognition of Qualifications' that will help ease the mobility

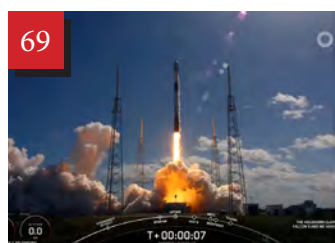
of students and professionals between the two



63

**India ranks 108th** in the **Electoral Democracy Index** of the **V-dem Democracy report 2023**. India ranks below countries such as **Tanzania, Bolivia,**

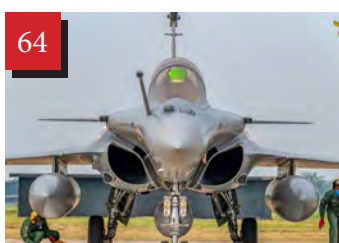
**Mexico, Singapore and even Nigeria.**



69

**A SpaceX Falcon 9** rocket successfully launched **40 broadband satellites** of **United Kingdom (UK)-based company OneWeb** from

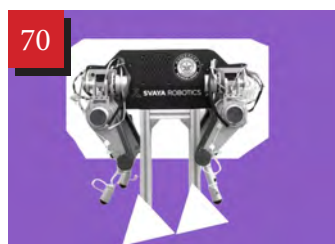
**Florida's Cape Canaveral Space Force Station in Florida, United States of America (USA).**



64

**Despite a fall in overall imports by India, India remained the biggest arms importer between 2018-22** with an **11% share** in total

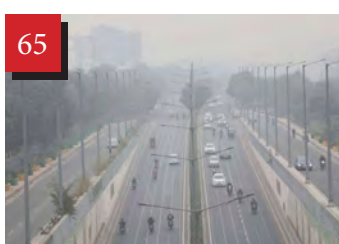
global arms imports.



70

**Hyderabad-based Svaya Robotics** has developed **India's first indigenous quadruped (four-legged) robot and exoskeleton** for the

**defence sector** as part of the **Atmanirbhar Bharat** initiative.



65

**Delhi has been ranked fourth** on the list of the **world's 50 most polluted cities**. Delhi is ranked **4th** in terms of **PM2.5 levels** in 2022

according to **IQAir's World Air Quality Report**.



71

The Singapore Army and Indian Army participated in the 13th edition of Exercise Bold Kurukshetra, a bilateral armour exercise held at

Jodhpur Military Station, Rajasthan, India.



76

Japanese conglomerate Softbank divested 3.85% or 2.8 crore shares of its stake in Gurgaon-based logistics firm Delhivery for Rs 954 crore

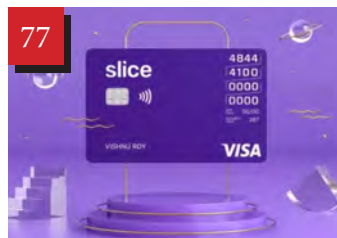
through open market transactions.



72

The Indian Army is set to host the 2nd edition of the Africa-India field training exercise (AFINDEX-23) which will take place at

Aundh Military Station, Pune, Maharashtra.



77

Payment app Slice has invested \$3.42 million to acquire a 5% equity stake in Guwahati-based North East Small Finance Bank. An

investment of up to 5% in a bank does not require approval from the Reserve Bank of India (RBI).



73

Indian Air Force (IAF) will take part in the multinational exercise Cobra Warrior at the Waddington Air Force Base of the Royal Air

Force in the United Kingdom (UK).



78

Australia won the ICC Women's Twenty20 World Cup 2023 title. Australia defeated South Africa by 19 runs in the final match played

in Cape Town.



74

The Indian Air Force (IAF) is participating in Exercise Shinyuu Maitri with the Japan Air Self-Defence Force (JASDF). It is a bilateral

military exercise between IAF and JASDF.



79

LeBron James has confirmed his status as one of the most dominant NBA players in history after passing Kareem Abdul-Jabbar's

all-time scoring record.



75

The maiden Joint Military Exercise FRINJEX-23 between Indian Army and French Army will be conducted at Pangode Military

Station in Thiruvananthapuram, Kerala.



80

Karnataka defeated Meghalaya by 3-2 to win the Santosh Trophy football after 54 years. Karnataka defeated Meghalaya in a final at

the King Fahd International Stadium in the Saudi Arabia capital, Riyadh.



81

**M**irabai Chanu has won the BBC Indian Sportswoman of the Year (ISWOTY) award for the second consecutive time. She is the first

person to win this award twice.



82

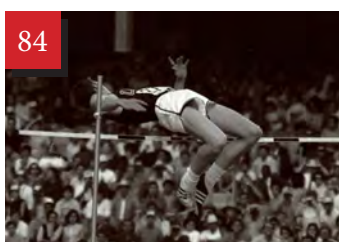
**T**able tennis player Bhavina Patel received the BBC Para Sportswoman of the Year award. This category of the award

has been introduced first time.



83

**A** new book titled 'COACHING BEYOND: My Days with the Indian Cricket Team' authored by R. Kaushik & R. Sridhar.



84

**A**n American high jumper & Olympic gold medalist Richard Douglas Fosbury passed away at the age of 76 in Utah, United States (US). He won a gold medal at

the 1968 Olympics in Mexico.



85

**F**ormer Chief Justice of India (CJI) Azim Premji passed away at the age of 90 in New Delhi, Delhi, India. He was appointed

as the Judge of the Supreme Court of India in December 1988.



86

**W**orld Tuberculosis Day, observed on 24 March to build public awareness about the global epidemic of tuberculosis and efforts

to eliminate the disease. The World TB Day 2023 theme is 'Yes! We can end TB!'



87

**P**M Modi inaugurated the new International Telecommunication Union (ITU) Area office & Innovation Centre in India. He also unveiled

Bharat 6G Vision Document and launched 6G R&D Test Bed. He also launched 'Call before you dig' App.



88

**U**nion Minister Dr. Jitendra Singh has inaugurated Asia's largest 4-metre International Liquid Mirror Telescope at

Devasthal, Uttarakhand.



89

**O**ne World TB Summit addressed by PM Narendra Modi in Varanasi, Uttar Pradesh. The summit was organised by the

Ministry of Health and Family Welfare (MoHFW) and the Stop TB Partnership.



90

**A** Belarusian court sentenced Ales Bialiatski, Belarus' top human rights advocate and a candidate for the 2022 Nobel Peace Prize,

to 10 years in prison.



91

**I**ndia's first PM Mega Integrated Textile Region and Apparel (PM MITRA) Park for the textile industry was launched at E. Kumaralingapuram

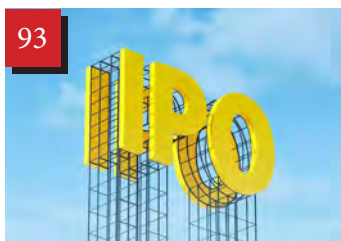
in Virudhunagar district of Tamil Nadu.



92

The **Indira Gandhi Tulip Garden**, Asia's largest tulip garden, opened to the public, nestled between Dal Lake and the Zabarwan

hills in **Srinagar**.



93

**IndiaFirst Life Insurance Company (IndiaFirst Life)** has received approval from capital markets regulator **Securities**

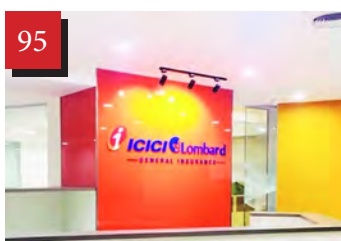
and **Exchange Board of India (SEBI)** to raise funds through an initial public offering (IPO).



94

**CoinDCX**, India's leading and most valued crypto company, has become a **Financial Intelligence Unit (FIU)**-registered reporting

entity under **Prevention of Money Laundering Act (PMLA)** norms.



95

For the first time in the country, **ICICI Lombard General Insurance Company Limited (ICICI Lombard)** has launched 'Anywhere

**Cashless'** feature for health insurance policyholders.



96

Private sector lender **Axis Bank** launched 'MicroPay', first pocket-sized swipe machine of India, based on 'Pin on Mobile' technology for

accepting digital payments.



97

Retirement fund body **Employees' Provident Fund Organisation (EPFO)** fixed 8.15% rate of interest on employees' provident fund (EPF)

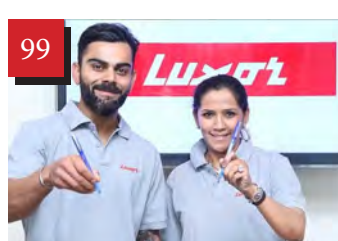
deposits for 2022-23 at its meeting.



98

A Bengaluru-based fintech startup, **ALT Realtech**, has launched the world's first digital real estate exchange, **ALT DRX**, allowing inves-

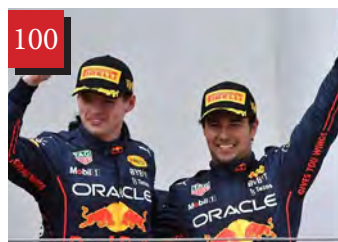
tors to buy one sq. ft. of real estate at a time.



99

Stationery manufacturer **Luxor Writing Instruments Private Limited** has appointed cricketer **Virat Kohli** as its new brand ambassa-

dor.



100

Mexican racing driver **Sergio Perez** has won the **Saudi Arabian Grand Prix 2023** title. In the same **Red Bull**, his partner **Max Verstappen**

secured the second position in the race.

# IMPORTANT DAYS



## Zero Discrimination Day 2023: March 1

**Z**ero discrimination day 2023 is celebrated on **March 1st, 2023**

On Zero Discrimination Day this year, under the theme **“Save lives: Decriminalise”**, UNAIDS is highlighting how the decriminalisation of key populations and people living with HIV saves lives and helps advance the end of the AIDS pandemic.

Zero Discrimination Day was **first celebrated and observed on March 1st, 2014**.

Zero Discrimination Day was **launched by UNAIDS**.



## World Hearing Day: 3rd March

**W**orld Hearing Day is announced to be celebrated on **March 3rd, 2023**

World Hearing Day 2023 Theme is **“Ear and hearing care for all! Let’s make it a reality.”** On World Hearing Day 2023, WHO will focus on the importance of safe listening as a means of maintaining good hearing across the life course. It is possible to have good hearing across the life course through ear and hearing care.



## World Civil Defence Day 2023: March 1

**W**orld Civil Defence Day is celebrated on **March 1st, 2023**.

In **1958**, the **International Association of Geneva Zones** becomes the **International Civil Defense Organization (ICDO)** and was given a new status as a non-governmental organization with the objectives such as establishing a liaison between national civil defence organizations, undertaking and promoting studies and research on population protection matters, and facilitating the exchange of experience and the coordination of efforts in the area of disaster prevention, preparedness, and intervention.

In 1972 the representatives of ICDO member states approved the current text of the organization’s constitution, which entered into force on **1 March 1972**.



## National Safety Day: 4th March

**N**ational Safety Day 2023 is celebrated on **March 4th, 2023**.

The 4th of March 2023 marks the **51st National Safety Day**.

National Safety day is a national event observed all over India for



## World Wildlife Day: 3rd March

**W**orld Wildlife day 2023 is celebrated on **March 3rd, 2023**.

World Wildlife Day 2023 theme is **“Partnerships for wildlife conservation.”**

This aims to draw attention to the conservation of some of the most severely endangered species of Wild animals and plants.

It commemorates the day of the signature of the Convention on International Trade in endangered species of wild fauna and flora.

**Thailand proposed World Wildlife Day in the General Assembly of the UN on December 20, 2013**, to create awareness among people about Worlds’ Wild animals and plants.





## International Women's Day: 8th March

International Women's Day 2023 is celebrated on **8th March 2023**.

The International Women's Day 2023 theme is **"DigitALL: Innovation and technology for gender equality"**

International Women's Day celebrates the rejoicing in the social, economic, cultural, and political achievements of women all over the world. The day also marks a call to action for accelerating gender parity.

In 1869, Susan B. Anthony and Elizabeth Cady Stanton started the National Women's Suffrage Association to fight for women's rights



## World Meteorological Day: March 23

World Meteorological Day is celebrated on March 23 every year all over the world and it is an annual event. In 1873, The First Weather Organization was formed. On March 23rd, 1961, The first World Meteorological Day was observed, on the anniversary of the organisation's creation.



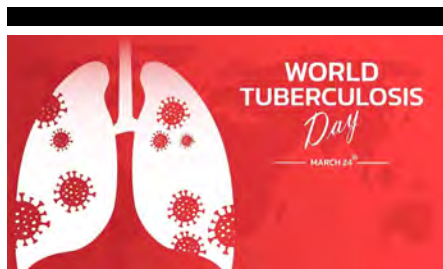
## National No Smoking Day 2023:

National No Smoking Day, is held every second **Wednesday of March**.

This year it will be **March 8, 2023**.

The day has been done to urge people to give up smoking and be aware of its harmful effects.

The **first National No Smoking Day was in 1984**, and it now takes place on the second Wednesday of March to encourage people over the world to quit smoking.



## World Tuberculosis (TB) Day 2023: March 24

World Tuberculosis Day, observed on **24 March** each year all over the world, is designed to build public awareness about the global epidemic of tuberculosis and efforts to eliminate the disease. The World TB Day 2023 theme is **'Yes! We can end TB!'**

## World Theatre Day 2023: March 27



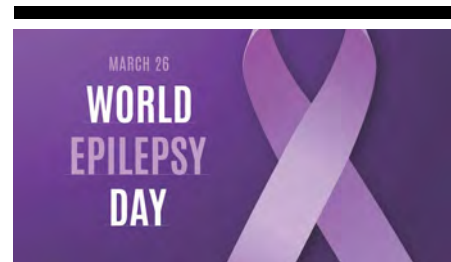
## CISF Raising Day: March 10

CISF Raising Day is celebrated on **10th March 2023**.

India celebrates the **54th anniversary of CISF (Central Industrial Security Force) Raising Day** on March 10, 2023.

Observing CISF Raising Day 2023 is important as it brings better protection and security to industrial undertakings in the country

**CISF was formed on March 10, 1969**, under the CISF Act of the Parliament of India.



## Purple Day for Epilepsy: March 26

On **March 26th** of this current year **Purple Day of Epilepsy 2023** is observed all over the world. In **460 - 377 B.C. Hippocrates is the first person to suggest epilepsy as a medically treatable disease of the brain**

On **27th March**, **World Theatre Day 2023** is celebrated all over the world. It is an international day observed annually all over the world on the 27th of March every year. The theme for World Theatre Day 2023 is **"Theatre and a Culture of Peace."**

# NATIONAL



## Sagarmala Program Boosting Tourism Economy in Karnataka and Tamil Nadu

The Ministry of Ports, Shipping, and Waterways, under its Sagarmala Programme, has pushed a number of reforms and initiatives in the maritime industry to strengthen the country's socio-economic and regulatory environment. Additionally, the Ministry has provided in-principle approval to 4 floating jetty projects in Tamil Nadu.



## Government approves 3 Centres of Excellence for horticultural crops under MIDH

Under Mission for Integrated Development of Horticulture (MIDH), Centers of Excellence (CoEs) are being established in various States through Bilateral Cooperation or Research Institutes. These CoEs serve as demonstration and training centres for latest technologies in the field of horticulture.



## Bhumi Samvaad IV: National Conference on Digitizing and Georeferencing India with Bhū-Aadhaar (ULPIN)

The Department of Land Resources is organising the National Conference - Bhūmi Samvaad IV on implementation of Unique Land Parcel Identification Number (ULPIN) or Bhū-Aadhaar in New Delhi. The theme of the National Conference is - "Digitizing and Geo-Referencing INDIA with Bhū-Aadhaar (ULPIN)".

## ATAL JYOTI YOJANA – 2.72 Lakh Solar Street Lights installed

The Ministry of New and Renewable Energy launched Atal Jyoti Yojana (AJAY) on 20.09.2016 with the main objective to provide Solar Street Lighting Systems for public use at different locations

for improvement in quality of life, safety and security. Under AJAY Phase-I, the Parliament Constituencies of the states of Assam, Bihar, Jharkhand, Odisha and Uttar Pradesh were covered.





## International Women’s Day: 8th March

The “Chip 4” semiconductor alliance recently held its first meeting of senior officials.

The “Chip 4” or “Fab 4” alliance includes four of the world’s top producers of semiconductors: the U.S., Japan, Taiwan, and Korea.

It represents more than 70 percent of the value of the global semiconductor industry.

It was first proposed by the US in March 2022 as part of wider plans aimed at enhancing the “security” and “resilience” of semiconductor supply chains, including by reducing the world’s reliance on chips made in China.



## UNDP and NITI Aayog Collaborate to Host LIFEathon for Mission LIFE

United Nations Development Programme (UNDP) and the NITI Aayog hosted a hackathon with young



## Unemployment rate at 5-year low of 4.1% in 2021-22

India’s unemployment rate dropped to a five-year low in July-June 2021-22 to 4.1 per cent, according to the latest annual Periodic Labour Force Survey (PLFS), released by the National Statistical Office (NSO).

The unemployment rate under the

so-called “usual status” during the one-year period declined for the fourth consecutive year since it was launched in April 2017.

During 2021-22, the unemployment rate in both rural and urban areas declined to 3.2 per cent and 6.3 per cent,



## Minister of State of the Ministry of Statistics and Programme Implementation released the Revised Guidelines on MPLADS

Ministry of Statistics and Programme Implementation (MoSPI) released the Revised Guidelines on Members of Parliament Local Area Development Scheme (MPLADS)-2023

The new guidelines broaden

the scope of the Scheme so as to enable the parliamentarian to recommend works as per the changing needs of the community

Entire process of fund flow under the revised guidelines will operate through the web portal

people from across the world to contribute ideas and innovations to promote sustainable living and climate-positive behaviour as part of the Government of India’s Mission LIFE.

The Lifestyle for Environment (LiFE) campaign aims to bring individual action to the forefront of climate action and

these nudges are as small as encouraging individuals to consume less plastic, waste-less food, and prefer public transport, United Nations Development Programme (UNDP).



## President Murmu inaugurates 7th International Dharma-Dhamma Conference in Bhopal

President Droupadi Murmu inaugurated the 7th International Dharma-Dhamma Conference in Bhopal. Governor Mangubhai Patel and Chief Minister Shivraj Singh Chouhan were also present at the conference.

It is being organised by the India Foundation in association with Sanchi University of Buddhist-Indic Studies.



## Union Ministry of Health & Family Welfare receives Porter Prize 2023

The award was announced at 'The India Dialogue' organized by the Institute for Competitiveness (IFC) Stanford University's US Asia Technology Management Center (USATMC).

It was presented to the Ministry of Health and Family Welfare in the virtual presence of Dr. Mansukh Mandaviya, Union Minister of Health and Family Welfare.

The theme of the conference was "The Indian Economy 2023: Innovation, Competitiveness and Social Progress".



## NCERT selects ETS for establishing national assessment regulator PARAKH

NCERT selects Educational Testing Service (ETS) for establishing the national assessment regulator PARAKH.

Setting up PARAKH was outlined in National Education Policy (NEP 2020) to help remove disparities in scores of students enrolled

with different State boards.

The Performance Assessment, Review and Analysis of Knowledge for Holistic Development (PARAKH) will work on setting norms, standards and guidelines for student assessment and evaluation for all recognised school boards in the country.



## World's first bamboo crash barrier installed on highway in Maharashtra

World's first 200-meter-long Bamboo Crash Barrier has been installed on Vani-Warora Highway. In Vidarbha, 200-meter-long Bamboo Crash Barrier has been installed on

the Vani-Warora Highway. This Bamboo Crash Barrier has been named 'Bahu Balli'. It was tested rigorously at various government-run institutions such as the National Automotive Test Tracks (NATRAX) in Pithampur, Indore.



## President Murmu to launch 'Catch the Rain-2023' campaign

President Droupadi Murmu launched the Jal Shakti Abhiyan - Catch the Rain 2023 campaign for the sustainability of drinking water in

New Delhi.

This campaign is an effort to turn the conservation of water into a mass campaign in the monsoon season.

The theme of this year's campaign is 'Source Sustainability for Drinking Water'.

President Droupadi Murmu also launched a video on 'Jal Shakti se Nari Shakti' and a commemorative stamp. She also released 'Swachh Sujal Shakti Ki Abhivyaakti'.



## Shri Hardeep Singh Puri to Launch Hydrogen-Based Advanced FCEV

**H**ydrogen-based advanced Fuel Cell Electric Vehicle (FCEV) launched by Union Minister Shri Hardeep Singh Puri in New Delhi.

The launch of the FCEV is an effort of the centre under its commitment toward cleaner energy and low-carbon pathways. This project is the same as the one launched earlier at Kevadia in Gujarat.



## India to launch global alliance for big cats, invest \$100 million

**I**ndia recently proposed to launch International Big Cat Alliance (IBCA) to protect big cats and assured support over five years with guaranteed funding of \$100 million.

It is a proposed mega-global alliance that will work toward the protection and conservation of the seven major big cats – tiger, lion, leopard, snow leopard, puma, jaguar, and cheetah.



**N**TPC, the country's largest integrated energy utility, has started commercial operation of 1st Unit



## IIM Kashipur's entrepreneurship event facilitates ₹5 crore funding for agri start-ups

**I**M Kashipur's Foundation for Innovation and Entrepreneurship Development (FIED) has helped facilitate ₹5 crore funding for 15 agri start-ups at Uttishtha 2023, its annual entrepreneurship summit recently.

The initiative, supported by the Agriculture Ministry, aims to bring socio-economic value in Uttarakhand's entrepreneur ecosystem by enabling the raw entrepreneurs to achieve their dreams.



## Shri Hardeep Puri launches 3-week women-led swachhata campaign

**U**nion Minister Shri Hardeep Singh Puri launched a three-week long women-led cleanliness campaign 'Swachhotsav'.

The campaign is recognizing and celebrating women-led sanitation, moving beyond women's participation in sanitation under Swachh Bharat Mission Urban 2.0.

A series of programs and activities will be organized in cities to shown leadership of women in

making the mission of Garbage Free Cities (GFCs) a success.

The Women Icons Leading Sanitation and Waste Management (WINS)

Challenge-2023 was also announced during the launch of Swachhotsav. The WINS Challenge-2023 will recognize women entrepreneurs or women-led enterprises working towards achieving cleanliness in cities.

The WINS Awards nominations for 2023 started on March 8.

## NTPC Commissions India's First ACC at Its North Karanpura Plant in Jharkhand

of 660 MW at North Karanpura (3\*660 MW), in Jharkhand. This project has been envisaged with Air Cooled Condenser (ACC) which has almost 1/3rd water footprint as compared to

a conventional Water Cooled Condenser (WCC). This would result in water saving of around 30.5 mcm annually thus fulfilling the needs of around 1.5 million people in the region annually.



## Centre announces 10% reservation for ex-Agniveers in BSF recruitment

The Ministry of Home Affairs (MHA) has amended the Border Security Force, General Duty Cadre (Non-Gazetted) Recruitment Rules, 2015 to give 10% reservation for ex-Agniveers in BSF recruitment. Border Security Force, General Duty Cadre (Non-Gazetted) (Amendment) Recruitment Rules, 2023, has come into force from 9th March.

According to the notification issued by MHA, the upper age limit will be relaxed by five years for the candidates of the first batch of ex-Agniveers in the recruitment of constables.



## Wildlife Board approves IAF mountain radar in Ladakh

With the National Board of Wildlife giving its approval, the decks have finally been cleared for the induction of the Indian Air Force's mountain radar in Ladakh, just off the proposed new IAF base. A slew of new operational tracks to ensure better strategic connectivity to the critical boundary trijunction off Dokalam has also been approved.



## PM Modi, Bangladesh PM Hasina to virtually inaugurate first India-Bangladesh cross-border oil pipeline

First India-Bangladesh cross-border oil pipeline will be virtually inaugurated by PM Modi and Bangladesh PM Hasina on March 18.

The 130 km India-Bangladesh Friendship Pipeline will be used to export diesel to Dhaka.

Out of 130 km, 125 km lies inside

Bangladesh's territory and 5 km lies inside India.

It has been built from approximately ₹377 cr, drawn from the Indian Line of Credit (LoC). The pipeline stretches from West Bengal's Siliguri to a Meghna petroleum depot in Dinajpur's Parbatipur.



## New initiative called 'beggar-free city' is being started in Maharashtra's Nagpur

A new initiative called 'beggar-free city' has been started in Nagpur, Maharashtra.

It is a joint effort of Nagpur City police and Nagpur Municipal Corporation's (NMC) social welfare department.

Nagpur Municipal Corporation has made special arrangements to accommodate homeless people in the shelters.

According to government data, West Bengal has the highest number of beggars.

It is followed by Uttar Pradesh and Bihar.



## Central Railways achieves 100% electrification of broad gauge

Central Railway has achieved complete electrification of its 3,825 kilometers long broad gauge network.

This will reduce more than 5 lakh tonnes of carbon footprints annually. It will help in savings of 1670 crore rupees. It will help earn carbon credit.

The central railway said the 52-kilometre Ausa Road-Latur Road stretch was the last non-electrified section.



## “Women and Men in India 2022” released: MoSPI

The Ministry of Statistics and Programme Implementation (MoSPI) released the 24th issue of “Women and Men in India 2022” (an annual statistics released by the Ministry of Statistics and Programme Implementation). **India’s sex ratio (females per 1,000 males) is expected to improve to 952 by 2036, up significantly from 943 in 2011, according to the Women and Men in India 2022 report released.**



## IFFCO, Coal India to manufacture Nano DAP for three years: govt

The government stated that fertiliser cooperative major IFFCO and state-owned Coal India Ltd (CIL) will manufacture Nano DAP for a period of three years. Di Ammonium Phosphate (DAP) is the second most widely consumed fertiliser after urea in the country.

IFFCO has informed that it is setting up a Nano DAP plant at its Kalol unit, Gujarat with a production capacity of **2 lakh bottles of 500 ml per day.**



## Yuva Utsav on theme of ‘Panch Pran of Amrit Kaal- India @2047’ organised in Mizoram

The first ever of its kind, a Yuva Utsav on the theme of ‘Panch Pran of Amrit Kaal - India @2047’ was organised in Saha district of Mizoram. The festival, which is being organised by the Nehru Yuva Kendra (NYK). The Yuva Utsav is being celebrated marking the

Azadi Ka Amrit Mahotsav in the spirit of Yuva Shakti. It aims to spread the ideals and values of India’s Freedom Struggle and to generate appreciation about the diverse spiritual and cultural heritage of the country among the masses.



## Ashwini Vaishnaw releases ‘Go Green, Go Organic’ cover for Sikkim

Union Minister Ashwini Vaishnaw and four Sikkim ministers released a unique cover of the Department of Posts, ‘Go Green, Go Organic’ for Sikkim. The special cover is a testament to the state’s achievements in organic farming and progress and a reminder of

the importance of sustainable development for the entire country. Meanwhile, the state has also won the prestigious Future Policy Gold Award from the UN Food and Agriculture. **Sikkim has the title of the ‘first 100% organic state’ in the world.**



## Brahmapuram fire: NGT slaps ₹100-cr fine on Kochi Corporation

The Principal Bench of the National Green Tribunal has imposed an environmental compensation of ₹100 crore on Kochi Municipal Corporation for its continuing neglect of duties,

resulting in the crisis at its wastage dump site at Brahmapuram following the major fire. The Bench led by chairperson Adarsh Kumar Goel



## Women and Child Development Ministry to celebrate the 5th Poshan Pakhwada

The Women and Child Development Ministry will celebrate the 5th Poshan Pakhwada from 20th March to 3rd April 2023. The theme of the 5th Poshan Pakhwada is "Nutrition for All: Together Towards a Healthy India". It will focus on popularising 'Shree Anna'- the mother of all grains as a valuable asset to resolve the problem of malnutrition.



## PM inaugurates ITU Area Office & Innovation Center

PM Modi inaugurated the new International Telecommunication Union (ITU) Area office & Innovation Centre in India. He also unveiled Bharat 6G Vision Document and launched 6G R&D Test Bed. He also launched 'Call before you dig' App.



## 3-days International Conference on 'Natural farming for Revitalising Environment & Resilient Agriculture' concludes in Imphal

The 3-day International Conference on 'Natural Farming to Revive the Environment and Resilient Agriculture' concluded. The conference concluded at Central

Agricultural University (CAU) in Imphal, Manipur. A total of eight technical sessions on various topics were organized during the three-day international conference.



## Dr Jitendra Singh inaugurates Asia's largest 4-metre International Liquid Mirror Telescope in Uttarakhand

Union Minister Dr. Jitendra Singh has inaugurated Asia's largest 4-metre International Liquid Mirror Telescope at Devasthal, Uttarakhand. Aryabhata Research Institute of

Observational Sciences (AREES) announced that the world-class 4-metre International Liquid Mirror Telescope (IMLT) is now ready to explore distant and deep celestial space.

## India aims at becoming 'Global Hub for Green Ship' building by 2030 with the launch of GTTP

Union Minister of Ports, Shipping & Waterways (MoPSW) and Ayush Shri Sarbananda Sonowal has stated that India aims at becoming 'Global Hub for Green Ship' building by 2030 with the launch of the Green Tug Transition

Programme (GTTP). He inaugurated India's first National Centre of Excellence in Green Port & Shipping (NCoEGPS) in Gurugram, Haryana.





## Govt approves installation of 'Statue of Knowledge' dedicated to Ambedkar

The 'Statue of Knowledge' installation dedicated to Ambedkar was approved by Govt. The construction of a 75-foot-tall "Statue of Knowledge" dedicated to Dr. B. R. Ambedkar in the city of Latur has received approval from the Maharashtra government. **Rs 10 crore has been sanctioned for this entire project.** Last year, a 75-foot replica of Ambedkar's statue was installed, and some organisations have been demanding that a permanent statue be installed in the city. On April 14, the foundation stone laying ceremony for the project will be performed on Dr. Ambedkar's birth anniversary.



## Union Home Minister Amit Shah chairs Regional Conference on Drug Trafficking and National Security in Bengaluru

Union Home Minister **Amit Shah** chaired a regional conference on 'Drug Trafficking and National Security' in Bengaluru. **The government has adopted a policy of zero tolerance against drugs to make a Drug-free India.**



## Union Cabinet extends subsidy of 200 rupees per cylinder for 12 refills annually for Ujjwala Yojana beneficiaries for one year

**S**ubsidy of two hundred rupees on twelve cylinders per year extended for one year for beneficiaries of the Ujjwala Yojana. The Cabinet Committee on Economic Affairs has extended the subsidy of **Rs 200 per LPG cylinder** under Pradhan Mantri Ujjwala Yojana for one year.

As on **March 1, 2023**, the total number of beneficiaries of

Pradhan Mantri Ujjwala Yojana is **nine crore 59 lakh**. The average LPG consumption of Pradhan Mantri Ujjwala Yojana consumers has increased by 20 per cent from 3.01 refills in 2019-20 to 3.68 in 2021-22. Cabinet Committee on Economic Affairs (CCEA) has fixed MSP for Raw Jute at **₹5,050 per quintal for the 2023-24 season.**



## CCEA approves MSP for Raw Jute at 5,050 rupees per quintal for 2023-24

**C**abinet Committee on Economic Affairs (CCEA) has fixed MSP for Raw Jute at ₹5,050 per quintal for the 2023-24 season. CCEA has fixed the Minimum Support Price (MSP) based on the recommendations of the Commission for Agricultural Costs and Prices (CACP). A minimum support price (MSP) is a minimum price for any crop

that the Government considers as remunerative for farmers and hence deserving of "support". It is also the price that Government agencies pay whenever they procure a particular crop from the farmers.



## Shri Sarbananda Sonowal inaugurates 'Sagar Manthan'

Union Minister Sarbananda Sonowal launched the real-time performance monitoring dashboard, **Sagar Manthan**, of MoPSW. Sagar Manthan is a digital platform for all the integrated data related to the **Ministry of Ports, Shipping and Waterways (MoPSW)**. It will promote real-time project tracking, risk management, resource allocation, and progress reporting.



## Centre revises MGNREGS wage rates with Haryana being highest at ₹357 per day

The Centre has notified a hike in wage rates under the rural job guarantee programme for the 2023-24 financial year with Haryana having the highest daily wage at **₹357 per day** and **Madhya Pradesh and Chhattisgarh** the lowest at **₹221**. The Union Ministry of Rural Development issued a notification on the change in wage rates under the Mahatma Gandhi

National Rural Employment Guarantee Scheme on March 24. The wage hikes, which range from **₹7 to ₹26**, will come into effect from **April 1**. **Karnataka, Goa, Meghalaya and Manipur** are among the states to register the lowest percentage increase.

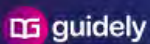
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# INTERNATIONAL



## South Korea to build 'world's largest' chip centre with \$230 billion investment from Samsung

**S**amsung Electronics expects to invest 300 trillion won (\$230 billion) over the next 20 years as part of an ambitious South Korean national project to build the world's largest semiconductor manufacturing base near the capital, Seoul. The plans were announced by President Mr Yoon Suk Yeol and confirmed by the electronics giant.

The chip manufacturing "mega cluster" of facilities will be built in various locations in Gyeonggi province by 2042. The centre will be anchored by 5 new semiconductor plants built by Samsung.



## Belarus Nobel Peace Prize laureate Ales Bialiatski sentenced to 10 years in prison

**A** Belarusian court sentenced Ales Bialiatski, Belarus' top human rights



## International Monetary Fund approves USD 3 billion in financial assistance for debt-ridden Sri Lanka

**T**he International Monetary Fund (IMF) has approved a \$3 billion bailout programme that will be available over 4 years, to help debt-ridden Sri Lanka overcome its economic crisis and catalyse financial support from other development

partners. This is Sri Lanka's 17th credit programme with the IMF. Sri Lanka is going through its worst-ever economic crisis since its independence in 1948. India had provided assistance of 4 billion dollars to Sri Lanka.



## Cochin Shipyard Ltd bags International Order for World's First Zero-Emission Feeder Container Vessel

**I**ndia's leading shipbuilder, Cochin Shipyard Limited (CSL), Cochin received an order from NAVSHUTTLE 1 AS and NAVSHUTTLE 2 AS, Lysaker Norway for the design and construction of 2 Zero Emission Feeder Container Vessels with an option for 2 more

vessels. The cost of the project is approximately Rs 550 crore. The project is one of the world's first Zero Emission Feeder Container Vessels powered by Hydrogen Fuel Cells with Green Hydrogen.

advocate and a candidate for the 2022 Nobel Peace Prize, to 10 years in prison. In October, 2022 he was awarded the Nobel Peace Prize for his work on human

rights and democracy, sharing it with the Russian rights group Memorial and Ukraine's Center for Civil Liberties.



## Bangladesh govt signs agreement with ISA to increase usage of solar energy in Bangladesh

The government of Bangladesh signed an agreement with the International Solar Alliance (ISA) to increase the use of solar energy in Bangladesh.

The agreement was signed between the ISA Director General Ajay Mathur and the Bangladesh Power Division Secretary Habibur Rahman.

The agreement is to be implemented by December 2026. The government has set up a target of generating 40% of its total energy through renewable sources by 2041.

Bangladesh aims to produce 4000 MW of solar power by the end of 2030 for which various projects have been taken up.

## Japan To Provide Loans Worth Rs. 2,288 Crore For 2 Projects In India

Japan will provide loans worth Rs 2,288 crore to India for the Mumbai Trans-Harbour Link Project in Maharashtra and a Super-Specialty Cancer and Research Centre in Mizoram.

Japan has approved JPY 30.755 billion or about Rs 1,728 crore for the project in Maharashtra and JPY 9.918 billion or around Rs 560 crore for developing the centre in



Mizoram.

Mumbai Trans-Harbour Link Project aims to improve connectivity in Mumbai Metropolitan Region by connecting Mumbai with Navi Mumbai, thereby contributing to the mitigation of traffic congestion and promoting regional economic development.

## Asian Development Bank to fund tourism projects worth Rs 1,311.20 crore in Himachal Pradesh

The Asian Development Bank (ADB) has agreed in principle to provide Rs 1,311.20 crore under phase-I of the proposed infrastructure development investment programme in Himachal Pradesh



(HP) to strengthen tourism infrastructure in HP. The total cost of the project is Rs. 2357 crore.

## Italian PM Giorgia Meloni to be the chief guest at 8th Raisina Dialogue



Italian Prime Minister (PM) Ms Giorgia Meloni will be the chief guest and keynote speaker at the 8th Raisina Dialogue.

India Prime Minister Shri Narendra Modi will inaugurate the 8th edition of the dialogue which will be held from 2 March to 4 March 2023 in New Delhi.

Its theme is "Provocation, Uncertainty, Turbulence: Lighthouse in the Tempest".

## NSE gets SEBI approval to launch WTI crude oil & natural gas futures contracts



The National Stock Exchange (NSE) has received approval from the markets regulator Securities and Exchange Board of India (SEBI) to launch the rupee-denominated NYMEX WTI crude oil and natural gas (henry hub) futures contracts in its commodity derivatives segment.

Commodity derivatives segment of an exchange provides trading in futures.



## India hosts first meeting of Governing Board of BIMSTEC Energy Centre (BEC)

India hosted the first meeting of the Governing Board of BIMSTEC Energy Centre (BEC) in Bengaluru, Karnataka.

India made a presentation on establishing the BIMSTEC Energy Centre (BEC) in India

in the premises of the Central Power Research Institute (CPRI), Bengaluru.

Shri. Ghanshyam Prasad, Chairperson, CEA was nominated as the first Executive Director of the BIMSTEC Energy Centre.

## First Anti-Corruption Working Group Meeting (ACWG) of G20 to be held at Gurugram, Haryana

The first meeting of the G20 Anti-Corruption Working Group (ACWG) meeting is being organized in Gurugram, Haryana, India.

The ACWG was joined by over 90 delegates from 20 member countries, 10 Invitee countries, and



9 International Organizations. To strengthen International Anti-corruption mechanisms G 20 ACWG meetings have one Chair (Presidency country) and one co-chair country.

It is under India's chairmanship, and Italy is the co-chair country.

## United States & Canada reach a deal on decades-old asylum agreement

The United States (US) and Canada have reached an agreement on a decades-old asylum accord that will restrict certain migrants from seeking protection in Canada. As part of the deal, Canada will create a new refugee programme for 15,000 migrants fleeing violence in South and Central America. The deal is an amendment in the 2004 Safe Third Country



Agreement between the US and Canada.

## UAE announces the world's first free zone dedicated to digital and virtual asset companies



The government of Ras Al Khaimah (RAK), one of the seven emirates of the United Arab Emirates (UAE), has announced plans to establish RAK Digital Assets Oasis, the world's first free zone dedicated to digital and virtual asset companies.

The announcement was made at the Blockchain Life 2023 conference.

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## Tamil Nadu Chief Minister Shri MK Stalin releases disaster management policy for 2023

The Chief Minister (CM) of Tamil Nadu (TN), **Shri M.K. Stalin**, released the **Tamil Nadu State Disaster Management Plan, 2023**, which lists out action plans to undertake in case of various **natural**

**and human-made disasters.** To develop a new culture of prevention, preparedness and rapid response for the management of disasters.



## Quality Council of India & 'Uttar Pradesh Government Launches 'UP Guvatta Sankalp' in Lucknow

The Government of Uttar Pradesh (UP) and Quality Council of India (QCI), in collaboration with industry associations - Associated Chambers of Commerce and Industry of India (ASSOCHAM), Federation of Indian Chambers of Commerce & Industry (FICCI), Institute of Internal Auditors (IIA) and PHD Chamber of Commerce and Industry (PHDCCI) launched the Uttar Pradesh Guvatta Sankalp (Uttar Pradesh Quality

Mission) at Lucknow, UP.

This is the **first of its kind initiative** being organised by QCI in India in partnership with a State, focuses on **4 key pillars** :

1. Quality as a driver of the USD 1 trillion economy
2. Micro Small & Medium Enterprises (MSMEs)
3. Healthcare services
4. Education and vocational training

## NGT slaps ₹10 crore penalty on Kerala government for failure to protect Ramsar sites



The Principal Bench of the **National Green Tribunal** in New Delhi has slapped a penalty of **₹10 crore** on the Kerala government for its **failure to check the indiscriminate pollution** of the **Vembanad and Ashtamudi lakes** (listed as Ramsar sites). The Bench was led by its chairperson **Adarsh Kumar Goel**. The penalty of ₹10 crore had to be utilised for **conservation/restoration measures** by preparing an action plan to be preferably executed **within 6 months**.

## Rajasthan becomes India's first state to guarantee right to health

Rajasthan becomes the first state in India to pass the **'Right to Health (RTH) Bill'** in the Assembly. The RTH bill gives every resident of the state a right to avail free Out Patient Department (OPD) services and **In Patient Department (IPD)** services at all public healthcare facilities.



## Kerala becomes the first State to use robotic scavengers to clean manholes

**W**ater Resources Minister, **Roshi Augustine**, launched a **robotic scavenger Bandicoot** under the Guruvayur Sewerage Project in Thrissur district by the Kerala Water Authority (KWA), as part

of the 100-day action plan of the state government.

With this Kerala became the **first state in India** to use robotics to clean all commissioned manholes and drainage.

## France's Guest of Honour at the 31st edition of New Delhi World Book Fair

**T**he 31st edition of the **New Delhi World Book Fair (NDWBF)** is being organised from **25th Feb, 2023 to 5th March, 2023** at Pragati Maidan, New Delhi, India.

The **9-day mega fair** is being organised by **National Book Trust (NBT)** in collaboration with **India Trade Promotion Organisation (ITPO)**.



**France** has been designated as the **Guest of Honor country** at the **World Book Fair**.

Theme of the "International Book Fair" is "**Elixir of Freedom**", to celebrate and remember 75 years of India and its glorious past in honour of the 75th anniversary of India's independence.

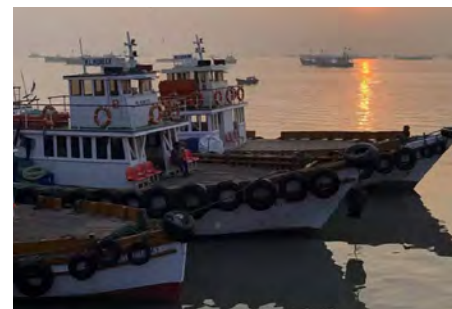


## Tamil Nadu signs MoU with UNEP for implementing urban cooling programme in TN

**T**he Tamil Nadu (TN) government has signed a Memorandum of Understanding (MoU) with the United Nations Environment Programme (UNEP) for implementing Urban Cooling Programme in TN to meet the

objectives under the Tamil Nadu State Action Plan on Climate Change. The MoU was signed between **Atul Bagai**, Country Head of UNEP and **Supriya Sahu**, Environment Secretary of Tamil Nadu government.

## Karnataka to get India's 1st Marina to promote coastal tourism



**K**arnataka Chief Minister **Shri Basavaraj Bommai** has confirmed the construction of India's first Marina which will be constructed at **Byndoor** in the **Udupi district, Karnataka**

To **promote coastal tourism** in Karnataka.

He announced this while addressing a function "**Seven Wonders of Karnataka**" organized by the **Department of Tou**

## Gold mines found in 3 districts of Odisha



**O**disha Steel and Mines Minister **Prafulla Mallick** has informed that gold mines have been found at different places in **3 districts of Odisha- Deogarh, Keonjhar and Mayurbhanj**.

These gold deposits have been found in 4 locations in Keonjhar District, locations in Mayurbhanj District, and one location in Deogarh District.

These areas include **Dimirimunda, Kushakala, Gotipur, Gopur, Joshipur, Suriaguda, Ruansila, Dhushura hill and Adas**.



## Asia's longest ever cycle race flagged off from Srinagar in J&K

The Asia's longest-ever cycle race was flagged off from Bakshi Stadium in Srinagar (J&K) and will culminate at Kanyakumari, Tamil Nadu (TN).. The race which has been accorded the status of Asian Ultracycling Championship by the world Ultracycling Association was flagged off in Srinagar by

Divisional Commissioner Kashmir Shri Vijay Kumar Bidhuri.

The route for this cycle race will be the longest highway covering the National Highway-44 of 3651 kilometres passing through 12 major states, 3 major metropolitan cities and over 20 major cities of the country.

## Madhya Pradesh gov't launches Ladli Bahna scheme to make women financially independent



Madhya Pradesh (MP) Chief Minister (CM) Shri Shivraj Singh Chouhan has launched a unique scheme namely Mukhyamantri Ladli Bahna Yojana at Jamboree Maidan in Bhopal, MP.

To enhance women's economic independence, improving their health and nutrition status and expanding their influence over family decisions.



## Union Minister Ashwini Vaishnaw releases 'Go Green, Go Organic' cover for Sikkim

Union Minister Shri Ashwini Vaishnaw and 4 Sikkim ministers released a unique cover of the Department of Posts, 'Go Green, Go Organic' for Sikkim.

This release is a tribute to the rich culture of Sikkim and its contributions to the country's agriculture sector.

It is a recognition of Sikkim's efforts towards promoting organic farming and sustainable development.



## Mauganj becomes Madhya Pradesh's 53rd district

Madhya Pradesh (MP) Chief Minister (CM) Shri Shivraj Singh Chouhan declared Tehsil Mauganj of Rewa district as the 53rd district of MP.

**Reason :** To end the discontent against the government regarding the lack of adequate representation for the politically important Vindhya region in the state cabinet.

Mauganj district, bordering Uttar Pradesh, will have 4 tehsils - Mauganj, Hanumana, Naigarhi and Devtalab with a population of more than 6 lakhs.

Now there will be 8 districts in the Vindhya region of Madhya Pradesh.



## Five-day Yaoshang festival begins in Manipur

The Yaoshang festival has begun and will continue for 5 days in Manipur.

The festival is celebrated by the Meitei people who are predominantly Hindu.

It is celebrated at the same time as Holi and known as 'Manipur's version of Holi'.



## Uttar Pradesh government exempts Electric Vehicles buyers in state from tax, registration fees



Uttar Pradesh (UP) Chief Minister (CM) **Shri Yogi Adityanath** has decided to exempt road tax and registration fees on purchase of Electric Vehicles (EVs) for 3 years from the 14th of October, 2022, to promote electric vehicles.



## Attukal Pongala, largest festival for women commences in Kerala

Attukal Pongala, arguably the largest festival of women in the world, began at the Attukal Bhagavathy Temple in Thiruvananthapuram, Kerala.

It is one of the largest gatherings of women in the world, falls on the **ninth day of the annual ten-day festival** at the Attukal Bhagavathy Temple

Only women are allowed to participate in it. It is also known as the '**Women's Sabarimala**', and making 'Pongala' is considered a sacred ritual in the annual festival of this temple.

Street-brick stoves are set up at various places in Thiruvananthapuram to cook 'pongala' (mixture of grated coconut, rice and jaggery) in earthen or metal pots.

taluks in Erode district, as the 18th wildlife sanctuary in TN. It will include 4 reserve forest areas in Anthiyur, Bargur, Thattakarai and Chennampatti. Tamil Nadu's 17th Wildlife Sanctuary : **Cauvery South Wildlife Sanctuary**

## 2 tigers 'reintroduced' in Madhya Pradesh's Madhav National Park after 27 years



Bandhavgarh Tiger Reserve in MP. The 2 tigers were released in the park by Chief Minister **Shri Shivraj Singh Chouhan** and Union Minister **Shri Jyotiraditya Scindia**. A 3rd tiger from Panna Tiger Reserve is expected to arrive at the park in 2-3 days.

The translocation of the two big cats took place to mark the birth anniversary of former Union Minister Shri Madhavrao Scindia, the father of Jyotiraditya Scindia. Recently, the Cheetahs from Namibia and South Africa were brought to Kuno National Park in Sheopur.

A tiger and tigress were reintroduced in the Madhav National Park (MNP) in Madhya Pradesh's (MP) Shivpuri district in a bid to revive the big cat population in the area. The tiger was transferred from Satpura Tiger Reserve, and the tigress was shifted from

## Maharashtra Government to launch the second phase of Jalyukt Shivar project



Government of Maharashtra has decided to launch the second phase of Jalyukt Shivar project. It is a scheme that targets drought-prone areas by Undertaking water conservation measures. To make the state drought-free by removing water scarcity in 5000 villages per year.



## Tamil Nadu's 18th wildlife sanctuary to come up in Erode

The Government of Tamil Nadu (TN) will notify Thanthai Periyar Wildlife Sanctuary, spread over 80,567 hectares in the forest areas of Anthiyur and Gobichettipalayam

## Odisha named Gandhamardan Hill as a biodiversity heritage site



spanning 18,963.898 hectare over 6,532.098 ha (Balangir) and 12,431.8 ha Bargarh districts, as the 3rd biodiversity heritage site (BHS) of Odisha by giving it the status of a unique, ecologically fragile ecosystem having rich biodiversity.

The Odisha government has declared the Gandhamardan hill (Gandhamardan Reserve Forest),

The Mandasaru gorge in Kandhamal district was notified as the first such site in Odisha in 2019, followed by Mahendragiri hills in Gajapati district in 2022.

## Tamil Nadu becomes 1st Indian state to launch PM MITRA mega textile park



India's first PM Mega Integrated Textile Region and Apparel (PM MITRA) Park for the textile industry was launched at E. Kumaralingapuram in Virudhu-

nagar district of Tamil Nadu. Under the Virudhunagar PM Mitra project, infrastructure work will be done with an estimated Rs 2,000 crore, which includes a central subsidy of Rs 500 crore. The Virudhunagar PM MITRA Park is among the 7 such proposals announced by the Centre. The other 6 parks will come up in Telangana, Karnataka, Maharashtra, Gujarat, Madhya Pradesh and Uttar Pradesh under the Rs 4,445 crore PM MITRA scheme.

## Asia's largest Tulip Garden opens for the public at Srinagar in J&K



The Indira Gandhi Tulip Garden, Asia's largest tulip garden, opened to the public, nestled between Dal Lake and the Zabarwan hills in Srinagar.

The Indira Gandhi Memorial Tulip Garden, formerly known as Siraj Bagh. It was inaugurated in 2008 by Jammu and Kashmir's then-chief minister, Ghulam Nabi Azad. It is the largest tulip garden in Asia spread over an area of about 30 ha (74 acres).



## West Bengal Chief Minister Mamata Banerjee launches flagship road 'Pathashree-Rastashree' project

West Bengal (WB) Chief Minister (CM) Mamata Banerjee inaugurated the flagship project named 'Pathashree-Rastashree' in Singur, WB. To strengthen road infrastructure and enhance connectivity to villages. Notably, the project was announced by state finance minister Shri Chandrima Bhattacharya while presenting the Budget in the West Bengal Legislative Assembly on February 15, 2023.

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# BANKING & ECONOMY



## RBI allows India & Tanzania to use national currencies for trading



The Reserve Bank of India (RBI) has approved for India and Tanzania to use their national currencies i.e, Indian Rupee (INR) & Tanzanian Shilling (Tsh) for bilateral trade settlement. Under this mechanism, authorised banks in India will open Special Rupee Vostro Accounts (SRVAs) of correspondent banks of Tanzania.

## RBI launched 2 surveys - IESH & CCS to gather 'useful inputs' for monetary policy



The Reserve Bank of India (RBI) has launched two key surveys namely Consumer Confidence Survey (CCS) and the Inflation Expectations Survey of Households (IESH). Data gathered from these surveys, which provide "useful inputs" for the RBI's bi-monthly monetary policy. The survey is conducted regularly in 19 cities

Difference between Vostro & Special Vostro accounts :

**Vostro account :**

A Vostro account (Vostro means 'yours' in Latin) is an account that a domestic bank holds for a foreign bank in the domestic bank's currency.

**Special Vostro Accounts :**

Normal Vostro accounts act **only as transit accounts** whereas in Special Vostro Accounts INR (Indian Rupee) **balances can be held.**

## RBI allowed banks from 18 countries to trade in rupee

The Reserve Bank of India (RBI) has allowed banks from 18 different countries to open Special Vostro Rupee Accounts (SVRAs) for settling payments in Indian rupees (INR). The 18 countries are: **Fiji, Botswana, Guyana, Germany, Kenya, Israel, Malaysia, Mauritius, Myanmar, New Zealand, Oman, Russia, Seychelles, Singapore, Sri Lanka, Tanzania, Uganda and the United Kingdom.** Union Minister of State for Finance Bhagwat Kishanrao Karad stated that 60 such approvals have been given by the RBI.



## RBI to set up new Data Centre & Cybersecurity Training Institute in Odisha

The Governor of the Reserve Bank of India (RBI), Shri Shaktikanta Das, initiated the establishment of a "Greenfield Data Centre" and an "Enterprise Computing & Cybersecurity Training Institute" in Bhubaneswar, Odisha during a foundation stone laying ceremony.

## RBI imposes Rs 30 lakh penalty on Karur Vysya Bank for non-compliance with regulations

The Reserve Bank of India (RBI) has imposed a monetary penalty of Rs 30 lakh on Karur Vysya Bank (KVB) for non-compliance with certain provisions under Frauds-Classification. Reason: For non-compliance with certain provisions of directions issued by RBI on 'Reserve Bank of India (Frauds - Classification and reporting by commercial banks and select FIs) directions 2016'

## State Bank of India completes first commercial trade in Sri Lankan rupees



Indian lender **State Bank of India (SBI)** completed its **first non-dollar transaction with Sri Lanka**, by paying for exports

in Sri Lankan rupees as India looks to bring countries that are short of U.S. dollars into the trade mechanism. The move comes as Sri Lanka grapples with its worst economic crisis since its independence, triggered by a shortage of dollars. The island nation's forex reserves stood at **\$2.1 billion as of end-January**.

## Karur Vysya Bank enters into a bancassurance agreement with SBI Life in the life insurance category



**Karur Vysya Bank (KVB)** has executed an **agreement** with SBI Lite, the **insurance arm of State Bank of India (SBI)** as an additional bancassurance partner in the life insurance category.

### What is bancassurance?

Bancassurance is a relationship between a bank and an insurance company that is aimed at offering insurance products or insurance benefits to the bank's customers. This partnership arrangement can be **profitable for both companies**.

## YES Bank issues first Electronic Bank Guarantee (e-BG) with National E-Governance Services Limited (NeSL)



**YES Bank** has issued its first electronic-Bank Guarantee (e-BG) in partnership with National E-Governance Services

Limited (NeSL). The API integration with the Digital Document Execution (DDE) platform of NeSL has enabled complete digitisation of the existing paper-based process for issuance and maintenance of Bank Guarantee (BG).

## Axis Bank launches India's first pocket-sized swipe machine 'MicroPay'



Private sector lender **Axis Bank** launched **'MicroPay'**, first pocket-sized swipe machine

of India, based on **'Pin on Mobile'** technology for accepting digital payments. The bank launched **'MicroPay'** along with Ezetap by Razorpay and MyPinpad as the technical solution partners.



## Canara Bank Sells Stake In Russian Joint Venture to SBI for Rs 121 Crore

**Canara Bank** has sold its stake in **Russian joint venture (JV) Commercial Indo Bank LLC (CIBL)** to the other venture partner **State Bank of India (SBI)** for about **Rs 121.29 crore**. CIBL, incorporated in 2003, is a joint venture in Russia between **SBI (60%) and Canara Bank (40%)**.



## PSU banks' gross NPA declines from 14.6% in Mar 2018 to 5.53% in Dec 2022

The government has taken various reforms following which asset quality of public sector banks (PSBs) has improved significantly with gross NPA ratio declining from a peak of 14.6% in March 2018 to 5.53% in December 2022. Since 2016, the government has given 'in-principle' approval for strategic disinvestment of 36 cases of public sector enterprises (PSEs) and/or subsidiaries/ units/ joint ventures of PSEs/ banks.

## South Indian Bank partners with Central Board of Direct Taxes for Direct Tax Collections



South Indian Bank is associated with the Central Board of Direct Taxes (CBDT) for direct tax collections from retail and corporate taxpayers.

**What is the Central Board of Direct Taxes (CBDT)?**

It is a statutory body established as per the Central Board of Revenue Act, 1963. It is India's official financial action task force unit. It is administered by the Department of Revenue under the Ministry of Finance.

## ICICI Prudential Life Insurance launches new guaranteed income plan - ICICI Pru Gold



ICICI Prudential Life Insurance Company Limited has launched the ICICI Pru Gold, a

long-term savings product that enables customers to create an additional income stream. The product is available in 3 variants : Immediate Income, Immediate Income with Booster, and Deferred Income.

## IndiaFirst Life Insurance gets SEBI's approval to launch IPO



IndiaFirst Life Insurance Company (IndiaFirst Life) has received an approval from capital markets regulator Securities

and Exchange Board of India (SEBI) to raise funds through an initial public offering (IPO). Bank of Baroda (BoB), the country's third largest PSU bank holds a 65% stake in the firm followed by Warburg Pincus affiliate Carmel Point Investments India which holds 26% and Union Bank of India which holds a 9% stake.

## Power Finance Corporation signs agreement with Japan's JBIC for project loan of Rs 165 cr

Power Finance Corporation (PFC) Limited has inked a pact with Japan Bank for International Cooperation (JBIC)

for a project loan of Japanese Yen (JPY) 2.65 billion or about Rs 165 crore. The loan agreement was signed at JBIC headquarters



## ICICI Lombard introduces country's 1st 'anywhere cashless' feature

For the first time in the country, ICICI Lombard General Insurance Company Limited (ICICI Lombard) has launched 'Anywhere Cashless' feature for health insurance policyholders to avail cashless facilities at any hospital, even if not part of ICICI Lombard's current network of hospitals.



## World Bank's IFC to invest \$73 million in Mahindra's last mile mobility unit

Indian automaker Mahindra and Mahindra stated that World Bank's private investment arm, International Finance Corp (IFC), will invest 6 billion rupees (\$72.58 million) in the company's last-mile electric mobility unit. The investment is the IFC's first in an electric vehicle maker in India.



Tokyo, between PFC Chairman and Managing Director R S Dhilon and Uchida Makoto, Managing Executive Officer of JBIC.



## Egypt Became a Member Of the BRICS New Development Bank

Egypt officially became a member of **BRICS' New Development Bank (NDB)** which includes India, Brazil, Russia, China, and South Africa as member countries. Egypt completed all the necessary procedures to become an eligible member on **February 20, 2023**.

## World Bank Approves \$108 Million to Improve Disaster Preparedness for Flood-prone Districts of Assam



The **World Bank** has approved a loan of USD 108 million (Rs 8,896,517,496) for Assam Integrated River Basin

Management Project (AIRBMP) to improve its disaster preparedness and flood forecasting capabilities in Assam. The **\$108 million** loan from the International Bank of Reconstruction and Development (IBRD) has a maturity of **11.5 years** and a **grace period of 4 years**

## CoinDCX becomes 'FIU-Registered Reporting Entity' to comply with new PMLA regulations



CoinDCX, India's leading and most valued crypto company, has become

a Financial Intelligence Unit (FIU)-registered reporting entity under Prevention of Money Laundering Act (PMLA) norms. This brings the cryptocurrency exchange operator under PMLA regulations.

## Sovereign Gold Bond (SGB) Scheme: Govt launches Series IV 2022-23



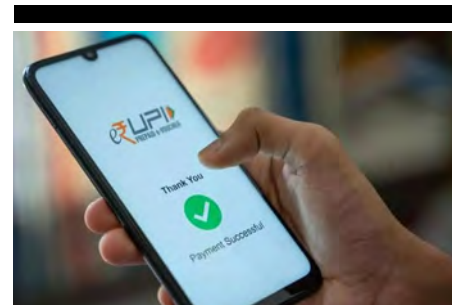
In terms of Government of India (GoI) Notification **Sovereign Gold Bonds 2022-23**

(Series IV) will be opened for subscription during the period March 06-10, 2023 with Settlement date of March 14, 2023. The issue price of the Bond during the subscription period shall be **₹5,611 per gram**.



## EPFO fixes 8.15% interest rate on employees' provident fund for 2022-23

Retirement fund body **Employees' Provident Fund Organisation (EPFO)** fixed **8.15%** rate of interest on employees' provident fund (EPF) deposits for 2022-23 at its meeting. The decision has been taken by the Employees' Provident Fund Organisation's apex decision-making body **Central Board of Trustees (CBT)**.



## NPCI recommends up to 1.1% interchange fee on UPI transactions of over ₹2,000 via PPIs

**National Payments Corporation of India (NPCI)** has notified that an interchange fee of up to **1.1%** will be applicable on merchant UPI (Unified Payments Interface) transactions done using **prepaid payment instruments (PPIs)** such as wallets or cards with effect from **April 1, 2023**. The charge will be levied on UPI payments of over ₹2,000 made to online merchants, large merchants and small offline merchants

## Centre hikes dearness allowance by 4% to 42%



Union Minister **Shri Anurag Thakur** announced that Dearness Allowance (DA) for central government employees and **Dearness Relief (DR)** for central government pensioners by 4%. This will increase the overall DA/DR from current 38% to 42%. The hiked DA/DR will be effective from January 1, 2023.

DA and DR are **revised twice a year, in January and July**. DA is given to government employees, while the DR is for pensioners. DA is a component of the salary paid to Central Government employees to offset the impact of inflation on their existing salaries. It is calculated as a percentage of the employee's basic salary, and is based on the latest Consumer Price Index for Industrial Workers (CPI-IW).

## Jindal Steel gets India's first BIS licence to manufacture Fire-resistant steel



Jindal Steel & Power has received **BIS certification** to manufacture **India's First Fire Resistant Steel Structures** at its rail mill and special profile mill in **Raigarh, Chhattisgarh**. **Bimlendra Jha**, Managing Director, **Jindal Steel and Power**.

## Developing countries attracted only 15% of global renewable energy investments in 2022



The developing world attracted **just 15 per cent, or roughly \$75 billion**, of the total investments in renewable energy (RE) globally in the last

calendar year, a recent report by International Renewable Energy Agency (IRENA) and Climate Policy Initiative (CPI) announced. As per **IRENA's World energy transitions outlook 2022**, the world will require annual investments of **\$5.7 trillion on average between 2021 and 2030**, and **\$3.7 trillion between 2031 and 2050** to meet the target.

## ALT Realtech, has launched the world's first digital real estate exchange



A Bengaluru-based fintech startup, **ALT Realtech**, has launched the world's first

digital real estate exchange, **ALT DRX**, allowing investors to buy one sq. ft. of real estate at a time. The startup, with an India-first launch strategy, has raised **\$1.6 million** in equity and **\$2 million** in callable mezzanine debt for co-investing in real estate assets during its seed round.

## RailTel bags ₹287-cr order from C-DAC



RailTel has bagged a **₹287.57-crore** order from the **Centre for Development of Advanced Computing (C-DAC)** for supply, installation, integration, testing and commissioning of the

IT infrastructure for greenfield data centres at New Delhi and Bengaluru along with training and support. The data centres will facilitate **C-DAC** in building up its capacity for secure, big data enterprise applications. The C-DAC is the premier R&D organisation of the **Ministry of Electronics and Information Technology (MeitY)**.

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## Niva Bupa launches health insurance plan 'ReAssure 2.0'



**N**iva Bupa Health Insurance Company Limited (Formerly Max Bupa Health Insurance Company Limited), one of India's largest independent health insurers, launched 'ReAssure 2.0,' which includes many industry-first features.

ReAssure 2.0 improves on the current ReAssure plan's 3 powerful benefits – ReAssure, Booster, and Safeguard – by providing a '+' variant of these benefits to provide unrivalled benefits.

## IDFC First Bank Limited & Federal Bank partner with Sa-Dhan on UPI123PAY



**P**private sector lenders IDFC First Bank Limited and the Federal Bank Ltd partnered with the association of microfinance institutions (MFIs) Sa-Dhan and Delhi-based fintech solutions provider NextGen to encourage feature



## IDFC Mutual Fund to launch India's first international ETF debt fund

**I**DFC Mutual Fund (MF) is set to launch India's first international debt fund, the IDFC US Treasury Bond 0-1 Year FOF (fund of funds).

With this international debt fund, Indian retail investors can now have access to diversify their investments and invest in **ultra-safe, currently high-yield US treasury securities.**

They can also use this FOF as a hedge against their exposure to the US dollar (USD).



## Reserve Bank of India tightens norms for ARCs on income recognising fee

**A**s a step to curb asset reconstruction companies (ARCs) from breaching income recognition norms, the Reserve Bank of India (RBI) stated that ARCs will deduct amounts from net-owned funds while calculating the Capital Adequacy Ratio.

They will have to deduct these amounts from the amount available for payment of dividends as well.

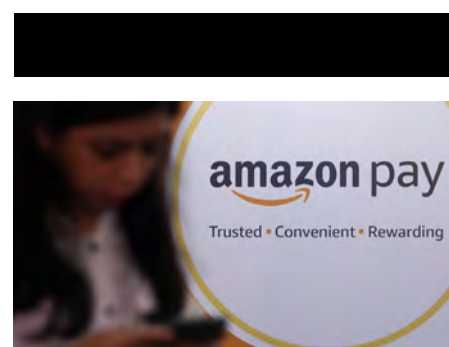
After implementing Indian Accounting standards (Ind AS), some ARCs have been recognising management fees even though the fee had not been realised for more than 180 days.

## RBI imposes ₹3.06 crore penalty on Amazon Pay (India) for violation of norms

**T**he Reserve Bank of India (RBI) has imposed a penalty of over ₹3.06 crore on Amazon Pay (India) Private Limited for non-compliance

with certain provisions related to Prepaid Payment Instruments (PPIs) and Know Your Customer (KYC) direction.

The penalty has been imposed



under Section 30 of the Payment and Settlement Systems Act, 2007.



## NewIndiaAssurance Co Ltd becomes 2nd company to offer surety bonds



**N**ew India Assurance, the largest non-life insurance company in the country, announced the launch of its **surety insurance bond business**. The state-run company became the **second insurer** to offer such bonds in the country.

In **December 2022** Union highways minister **Nitin Gadhari** launched **India's first surety bond insurance for infrastructure projects** by the private sector player **Bajaj Allianz General Insurance**.

## Himachal Pradesh Chief Minister Launches UPI E-Services For Kangra Central Co-



**H**imachal Pradesh (HP) Chief Minister (CM) **Shri Sukhvinder Singh Sukhu** has launched **UPI (Unified Payments Interface)** and **'Swadhan-e-pension-Gov'**



## IRCTC partners with HDFC Bank to launch India's co-branded travel credit card

**I**ndian Railway Catering and Tourism Corporation Ltd (IRCTC), the public sector undertaking under the **Ministry of Railways**, and **HDFC Bank**, India's **largest private sector bank** have partnered to launch one of India's most rewarding co-branded travel credit cards, known as the **IRCTC HDFC Bank Credit Card**.

HDFC Bank is the first private sector bank to partner with IRCTC to enhance the customer experience for train travellers, right from the time of booking their tickets.



## NSE designates 15 stock brokers as Qualified Stock Brokers

**T**he **National Stock Exchange (NSE)** has notified **15 stock brokers as Qualified Stock Brokers (QSBs)**.

The list includes **Zerodha, Angel One, 5paisa Capital, HDFC Securities, ICICI Securities, IIFL Securities, Jainam Broking, Kotak Securities, Motilal Oswal Financial Services, NextBillion Technology, Nuvama Wealth and Investment, Sharekhan, Anand Rathi Share and Stock Brokers, RKS Security, and Globe Capital Market**

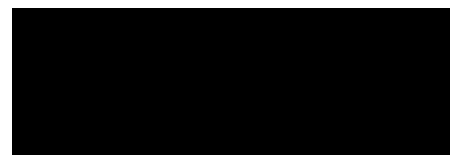
This list was announced following a **February 2023** direction by the capital markets regulator **Securities and Exchange Board of India (SEBI)**.

## RBI launches Mission 'Har Payment Digital' on the occasion of Digital Payments Awareness Week 2023

**T**he Governor of Reserve Bank of India (RBI) **Shri Shaktikanta Das** launched the Mission **'Har Payment Digital'** on the occasion of the **Digital Payments Awareness Week**

(**DPAW**) 2023.

This is part of RBI's endeavour to make every person in India a user of **digital payments**.



## Max Life & Ujjivan Small Finance Bank collaborates to provide life insurance services



**M**ax Life Insurance Company Ltd (Max Life) and Ujjivan Small Finance Bank (SFB) have launched cooperation to provide Ujjivan SFB customers with holistic life insurance options.

Max Life will offer a variety of savings, protection, retirement, and group life insurance plans to over 73 lakh Ujjivan SFB customers through this cooperation.



## CBDT gives five-year tax exemption for insolvency regulator IBBI

**I**n a big boost to the insolvency regime, the Central Board of Direct Taxes (CBDT) has granted tax exemption to certain specified incomes of the insolvency regulator Insolvency and Bankruptcy Board of India (IBBI) for 5 financial years starting from the current fiscal.

The tax exemption will be available for the financial years 2022-2023, 2023-2024, 2024-2025, 2025-2026 and 2026-2027.



## Bajaj Finserv got SEBI licence to start mutual fund business

**F**inancial services company Bajaj Finserv has received the final registration from the Securities and Exchange Board of India (SEBI) to start its mutual fund (MF) business operations under Bajaj Finserv Mutual Fund.

Bajaj Finserv Mutual Fund, with Bajaj Finserv Asset Management Limited (BFAML) as the Investment Manager, will soon offer a range of MF products including equity, debt, and hybrid funds, both in the active and passive segments, to investors.

## Axis Bank partners with ITC Ltd to offer rural lending products to farmers in remote region



**A**xis Bank, India's third largest private sector bank, has collaborated with ITC Limited to offer the Bank's lending products and services to

farmers who are a part of ITC's agriculture ecosystem.

The partnership will enable Axis Bank to cater to the financial requirements of unserved and under-served farmers based in remote regions by offering them a range of assets and liability products such as farmer loans and gold loans, among others.

competitive interest rates.

Under the partnership, the entities will provide products such as Home Loan for Salaried Employees, Loan for Plot Purchase and Construction, Home Improvement Loan, Loan Against Residential Commercial Property, Balance Transfers and Top Up, among others, to customers from lower and middle-income groups.

## YES Bank enters into co-lending partnership with Aadhar Housing Finance



**Y**ES Bank has entered into a co-lending partnership with Aadhar Housing Finance Ltd to offer home loans at

The partnership is in line with the Reserve Bank of India's (RBI) co-lending framework that enables banks and non-banking companies to jointly bring about financial solutions that address the needs of underserved and underserved sections of society.

## Ujjivan Small Finance Bank Launches “Un-pause Initiative” to Support Workplace Diversity



**U**jjivan Small Finance Bank (Ujjivan SFB) has launched the ‘Unpause Initiative’, a programme designed to assist women who have taken a career break for any reason and are now ready to return to the workforce. The initiative is part of its commitment to promoting **workplace diversity and inclusion**.

To provide women with the resources and support they need to succeed, to enable them to enrich themselves and contribute to the community at large.



## Bandhan Bank opens Mega Currency Chest in West Bengal

A **Mega Currency Chest** has been opened by **Bandhan Bank** in **Kolkata, West Bengal**.

This is the Bank’s **third mega currency chest**, the other two being in **Patna and Guwahati**.

**Shri Gunveer Singh**, Chief General Manager, Reserve Bank of India (RBI) inaugurated the currency chest.

## Only 1% women Insured in India – Report



**A**ccording to the latest report by **PayNearby** in association with **RBI Innovation Hub**, **Insurance penetration among women in rural India** remains a concern with **only 1% insured and 29% aware** of the insurance products offered.

It is highlighted that **Life insurance** is the most common type of **Insurance** availed by this cohort at **23%**.

Also the number of **health insurance policies** is also gradually increasing now with **18% of women insured**.

The report covers nearly **10000 women** as the survey was conducted across more than **5000 retail outlets** of **PayNearby**.

## Equitas Small Finance Bank partners with Gujarat Titans for Tata IPL



To communicate that **Equitas** has been playing a progressive role in transforming the lives of individuals through their lending and social responsibilities of **‘Beyond Banking**.

**E**quitas Small Finance Bank has signed a partnership as the **‘Proud Banking Partner’** with the **2022 Tata IPL champions – Gujarat Titans** for the 2023 season.

The **Gujarat Titans** team will sport the **Equitas Small Finance Bank** logo on the back of the helmet as part of the team’s jersey.

Earning up to **7% interest** on savings

Contactless video KYC service  
**No maintenance charges** on savings accounts

Free online fund transfers and so on.

## PNB makes Positive Pay System mandatory for cheque payments worth Rs 5 lakh and above



**I**n a move to **safeguard customers** from fraudulent payment of cheques, state-owned **Punjab National Bank (PNB)** has made the **Positive Pay System (PPS)** compulsory for **cheque payments worth Rs 5 lakh and above**.

This will come into effect from **April 5, 2023**.

Earlier, the mandatory submission of cheque details in PPS was set at **Rs 10 lakh** and above.

## Ujjivan Small Finance Bank Launches “Un-pause Initiative” to Support Workplace Diversity



**U**jjivan Small Finance Bank (Ujjivan SFB) has launched the ‘Unpause Initiative’, a programme designed to assist women who have taken a career break for any reason and are now ready to return to the workforce. The initiative is part of its commitment to promoting **workplace diversity and inclusion**.

To provide women with the resources and support they need to succeed, to enable them to enrich themselves and contribute to the community at large.

## European Investment Bank & IREDA explore a partnership to finance Renewable Energy & green hydrogen projects in India



**T**he European Investment Bank (EIB) and state-owned Indian Renewable Energy Development Agency



## World Bank Commits \$1 Billion To India For Public Healthcare Infrastructure

A Mega Currency Chest has been opened by Bandhan Bank in Kolkata, West Bengal.

This is the Bank’s **third mega currency chest**, the other two being in Patna and Guwahati.

**Shri Gunveer Singh**, Chief General Manager, Reserve Bank of India (RBI) inaugurated the currency chest.

## World Bank Commits \$1 Billion To India For Public Healthcare Infrastructure



**T**he Government of India (GoI) and the World Bank signed **two complementary loans of \$500 million Public Health Systems for Pandemic Preparedness Program (PHSPP) & a \$500 million Enhanced Health Service Delivery Program (EHSPP)** to support and improve public healthcare infrastructure in India.

Through this combined financing of **\$1 billion**, the Bank will support India’s flagship **Pradhan Mantri-Ayushman Bharat Health Infrastructure Mission (PM-ABHIM)**, launched in **October 2021**.

## RBI infuses ₹82650 crore into the banking system via VRR auction

**T**he Reserve Bank of India (RBI) infused liquidity amounting to **₹82,650 crore** into the banking system via the **14-day Variable Rate Repo (VRR)** auction.

Banks borrowed ₹82,650 crore at a weighted average rate of 6.53%. Notified amount under the VRR

auction was ₹1 lakh crore.

This will be only the **second VRR auction** conducted by the RBI since February 2020.

On February 8th, 2023 **bi-monthly monetary policy review**, RBI governor **Shri Shaktikanta Das** stated that **higher government expenditure** and the anticipated



return of forex inflows may augment systemic liquidity.

It would get modulated by the scheduled redemption of **LTRO (long-term repo operations)** and **TLTRO (Targeted LTRO)** funds from February to April 2023.

The RBI will carry out operations on either side of the **liquidity adjustment facility (LAF)** based on evolving liquidity conditions. The **Variable Repo Rate (VRR)** auction is usually undertaken to withdraw excess **liquidity from the system**.

## Kochi Metro becomes the first in the country to accept digital currency for parking



In an initiative to promote Central Bank Digital Currency (CBDC), Kochi Metro Rail Limited (KMRL) has become the 1st metro in India to accept digital currency in its parking

facilities.

The programme was inaugurated by **KMRL MD Loknath Behera** at Thykoodam Metro station.

The programme was introduced in association with Maharashtra based **IDFC FIRST Bank** partnered with **Anantham Online**, a technology startup.

This initiative comes at the back of a pilot programme launched by the **Reserve Bank of India (RBI)**.



## Central banks of Israel, Norway and Sweden model hub for digital currency payments

**P**roject Icebreaker, a joint initiative from the **Bank for International Settlements (BIS)** and the central banks of **Israel, Norway, and Sweden**, has successfully concluded a **study** on the potential benefits and challenges of using retail **central bank digital currencies (CBDC)** in international payments.

The project tested the technical feasibility of conducting cross-border and cross-currency transactions in a hub-and-spoke model between different experimental retail CBDC systems.

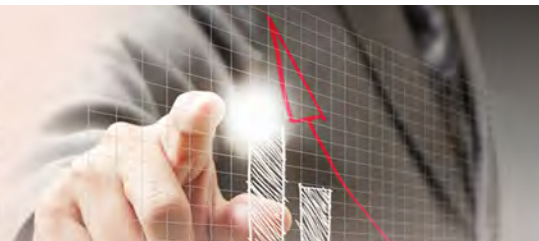
## World Bank Signs a \$1 Billion Program to Support India's Health Sector for Pandemic Preparedness and Enhanced Health Service Delivery



**T**he Government of India and the World Bank have signed two complementary loans of \$500 million each to support and enhance India's health sector development.

Through this combined financing of \$1 billion, the Bank will support India's flagship Pradhan Mantri-Ayushman Bharat Health Infrastructure Mission (PM-ABHIM), launched in October 2021, to improve the public healthcare infrastructure across India.

# BUSINESS



## GST collections grow 12.4% to surpass ₹1.49 lakh crores



The government collected more than 1.49 lakh crore rupees in GST revenue in February 2023.

GST revenue collection recorded 12% growth in February against the same period of the previous financial year.

Monthly GST revenue collection is higher than one lakh 40 thousand crore rupees for 12 straight months in a row.



## IREDA Plans to Finance Renewable Energy Projects in Foreign Currency

IREDA is planning to establish an office in Gujarat's GIFT City to finance Renewable Energy projects in foreign currency.

The Ministry of New and Renewable Energy (MNRE).

It was set up as a specialized non-banking finance agency for the renewable energy sector.

## Tata Motors launches first registered vehicle scrapping facility in Jaipur



The registered facility Re.Wi.Re (Recycle with Respect) has a capacity of 15,000 vehicles per annum and offers eco-friendly prices for dismantling end-of-life vehicles.

The facility will be available for passenger and commercial vehicles and is developed and operated by Tata Motors' partner Ganganagar Vaahan Udyog Pvt Ltd.

Indian automaker Tata Motors launched its first vehicle scrapping facility in Jaipur, Rajasthan.

## CBDT gives five-year tax exemption for insolvency regulator IBBI



Certain specified incomes of Insolvency and Bankruptcy Board of India (IBBI) have been granted tax exemption by Central Board of Direct Taxes (CBDT).

These incomes include grants-in-aid received from Central Government, fees received under the IBC, fines collected under the IBC and any interest income on these receipts.

The tax exemption will be available for the financial years 2022-2023, 2023-2024, 2024-2025, 2025-2026 and 2026-2027.

In September 2022, IBBI had imposed a regulatory fee of 0.25% on corporate insolvency resolution process (CIRP).

## BSE & UN Women India launches a new programme, 'FinEMPOWER', at Bombay Stock Exchange



**B**SE and UN Women India launched a new programme, 'FinEMPOWER', at the Bombay Stock Exchange (BSE).

It is a year-long joint capacity-building programme between

BSE and UN Women to empower women towards financial security.

In commemoration of International Women's Day, BSE and UN Women India collaboratively organised the 'Ring the Bell for Gender Equality ceremony' to accelerate investment in women leaders and entrepreneurs at BSE.

## Reliance to set up 10 gigawatt solar energy project in AP

**R**eliance Industries Chairman Mukesh Ambani & his group will be investing in Andhra Pradesh to set up a 10-gigawatt renewable solar energy project. Ambani said as much as Rs

1.50 lakh crore was invested in Reliances' KG-D6 assets, developing and supporting gas pipeline and the natural gas produced there is fuelling India's clean energy transition and will



contribute to nearly 30 per cent of the country's gas production.

## Mudra loans log a record 30% growth in H1 FY23



**M**udra loans disbursement is likely to create an all-time record in the current financial year.

Mudra loans disbursement in the

current financial year has surpassed total disbursements of last year.

According to the latest data, loans worth ₹3.56-lakh crore have been sanctioned.

Out of this, loans worth ₹3.48-lakh crore have been disbursed as of March 3, 2023.

In the last financial year (FY22), the loans worth ₹3.39 lakh crore were sanctioned and loans worth ₹3.31 lakh crore were disbursed.

## Crypto under PMLA: CoinDCX registers itself as reporting entity with FIU



**C**oinDCX has become a Financial Intelligence Unit (FIU)-registered reporting entity under Prevention of Money Laundering Act (PMLA) norms. This would lead to increased accountability and implementation of best practices by the Virtual Digital Assets (VDA) industry

## TRAI recommends no organisation should be allowed to set up more than 6 Community Radio Stations throughout India



**N**o organisation should be permitted to establish more than six Community Radio Stations throughout the

country. Telecom Regulatory Authority of India (TRAI) has made this recommendation recently. TRAI has also recommended an increase in the duration of an advertisement on a Community Radio Stations from 7 minutes per hour to 12 minutes per hour.

# APPOINTMENTS & RESIGNATIONS

## Vietnam's Parliament Selects Mr Vo Van Thuong as its New President of Vietnam



Member of the Politburo of the Communist Party of Vietnam (CPV), **Mr Vo Van Thuong**, was elected as the new President of Vietnam by the

National Assembly (NA) till the term ending 2026.

He is the youngest person to serve in this position since the republic's founding in 1945.

Recently, Vietnam's Vice-State President **Mr Vo Thi Anh Xuan** was appointed **Acting State President of Vietnam** following the resignation of State President Nguyen Xuan Phuc.

## Mr Bola Ahmed Tinubu elected as new president of Nigeria



The ruling party candidate, **Mr Bola Tinubu**(70) has defeated vice president **Mr Atiku Abubakar** (opposition People's Democratic Party) to win the **disputed presidential**

**election in Nigeria.**

He will become Nigeria's **5th elected president since 1999.**

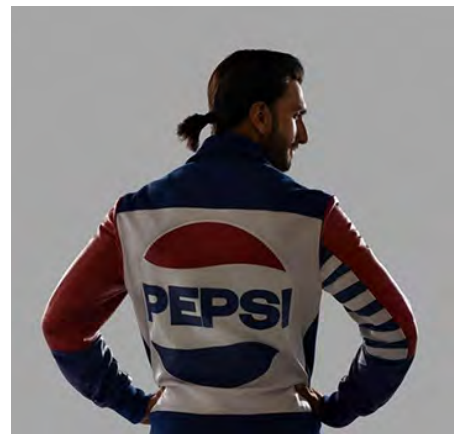
**Mr Bola Ahmed Tinubu** received 37% of the vote which is probably around 8.8 million while the main opposing candidate **Abubakar** won 29% with approximately 7 million.

**Bola Tinubu** served as the **Governor of Lagos State** from 1999 to 2007 and Senator for Lagos West during the brief Third Republic

## Pakistan Prime Minister appoints Mr Ramesh Singh Arora as first ambassador for Kartarpur Corridor



Pakistan Prime Minister (PM) **Mr Shehbaz Sharif** has appointed **Mr Sardar Ramesh Singh Arora** as the **Ambassador-at-Large for Kartarpur Corridor** as part of



## Pepsi appoints Ranveer Singh as new brand ambassador

Beverage maker **PepsiCo** has appointed Bollywood actor **Ranveer Singh** as its **brand ambassador.**

Also the company unveiled a new campaign with the **tagline Rise Up Bsaby** , targeting younger consumers as it gears up for a prolonged summer that could help lift sales of cold drinks.

efforts to attract Sikh pilgrims from across the world.

His appointment comes as **Kartarpur failed to attract** the number of **visitors Pakistan** authorities had imagined after opening the critical holy site for Sikhs, especially those in India.

This corridor links **Gurdwara Darbar Sahib in Pakistan** with the **Dera Baba Nanak shrine** in Gurdaspur district, Punjab, India.

The **4 km-long corridor** provides visa-free access to Indian pilgrims to visit **Gurdwara Darbar Sahib** on the Pakistani side



## K Govindaraj becomes first Indian to be nominated as FIBA Asia President



In a first-of-its-kind nomination, an Indian Dr K Govindaraj has been nominated as FIBA (Fédération Internationale de Basketball)

Asia president.

In the 63-year-old history of FIBA Asia, this is the first time it will be headed by an Indian.

The decision was taken unanimously by the 44 federations under FIBA Asia.

Govindaraj will replace Qatar's Sheikh Saud Ali Al Thani, who was serving his 4th five-year term as head of FIBA Asia since 2002.

## NASA Appoints Dr Nicola Fox to Lead Agency's first woman Science Directorate



The National Aeronautics and Space Administration (NASA) has picked a longtime solar scientist who heads its heliophysics division, Dr Nicola Fox to become the U.S.

space agency's science chief – the first woman named to serve in the role.

This will be the first time that a woman has led the space agency's science division.

Fox will succeed Mr Thomas Zurbuchen, a Swiss-American astrophysicist who had led the directorate since 2016 & he retired in December 2022.

Sandra Connelly, formerly Zurbuchen's deputy, has been leading the directorate in an acting capacity.

## Shri Rajesh Malhotra appointed as Principal Director General of Press Information Bureau



Senior Indian Information Service (IIS) officer Rajesh Malhotra has been appointed as the principal director general of the Press Information Bureau (PIB).

He will replace Satyendra Prakash, who took charge as principal DG of PIB in August 2022. He has over 32 years of experience

in planning and implementing media and communication arrangements for various Ministries and Departments of the Central Government.

He was associated with the Election Commission as in-charge of media and communication for 21 years (1996-2017).

During the Covid-19 pandemic, he effectively steered the media and communication policy in the ministry of Finance in sync with the various AatmaNirbhar Bharat Packages.



## Former Assam chief secretary Mr. Jishnu Barua appointed as Chairperson of India's power regulator CERC

The government has appointed Mr. Jishnu Barua, former Assam chief secretary, as chairperson of the Central Electricity Regulatory Commission (CERC).

Union Power Minister Shri RK Singh administered the oath of office and secrecy to Jishnu Baruah.

Mr. Barua will succeed Mr. PK Pujari, whose extended tenure in the Commission got over in June 2022.

The CERC was without a chief for nearly 8 months.



## Shri Conrad K Sangma takes oath as Chief Minister of Meghalaya for 2nd term

National People's Party (NPP) chief Shri Conrad K Sangma took oath as the CM of Meghalaya for a second consecutive term in presence of PM Shri Narendra Modi.

Sangma took the oath along with 11 others, including 7 MLAs from the NPP, 2 from the United Democratic Party (UDP) and 1 each from BJP and Hill State People's Democratic Party (HSPDP).

## Kuwait's crown prince re-appointed Mr Sheikh Ahmad Nawaf al-Sabah as Prime Minister



**K**uwait's crown prince Mr Sheikh Meshal al-Ahmad al-Sabah re-appointed Mr Sheikh Ahmad Nawaf al-Sabah as Prime Minister (PM) of the Kuwait Government and asked him to nominate members of the

new cabinet.

In Jan 2023, PM Mr Sheikh Ahmad Nawaf al-Sabah submitted the resignation of his cabinet to the crown prince due to increased tensions with the parliament.

It was the **5th time** a Kuwaiti government has resigned in just over 2 years.

Kuwait bans political parties but has given its legislature more influence than similar bodies in other Gulf monarchies.

## Slice onboard Kiara Advani as brand ambassador & launches new summer campaign



**S**lice, a fruit-flavoured soft drinks brand from PepsiCo, has onboarded bollywood

actor **Kiara Advani** as its **brand ambassador** replacing Katrina Kaif.

The brand also launched its new summer campaign titled, 'Aam Ka Ehsaas. Sabse Khaas,' featuring the actor at a special brand event.

To further connect with its audience and reinforce its position as the go-to drink for mango lovers across the country.

## Group Captain Ms Shaliza Dhami becomes 1st woman officer to command front line IAF combat unit



**I**ndian Air Force (IAF) Group Captain **Ms Shalija Dhami** has become the **first woman**

**officer** of the IAF to be given command of a frontline combat unit.

Dhami will command the combat unit of the **Western Sector**.

The announcement was made just before International Women's Day, observed on March 8, 2023.

She will be the **1st woman in the 3 forces (army, Navy, Air Force)** to command a combat unit.



## Ms Salhoutuono Kruse becomes Nagaland's first woman minister

**M**s Salhoutuono Kruse, the National Democratic Progressive Party (NDPP) candidate from Western Angami seat, became the **first woman** to be sworn in as a **minister** in Nagaland's history.

She administered the oath of office in the presence of Prime Minister Shri Narendra Modi.

Ms Kruse defeated **Keneizhakho Nakhro**, an independent candidate, by only 7 votes.



## Mr Arun Subramanian becomes 1st Indian-American to be Judge of Manhattan Federal District Court in New York

**M**r Arun Subramanian became the **first Indian American** to become the **Judge** of the **Manhattan Federal District Court of New York**.

With this, Mr Subramanian has become the **first South Asian judge** to serve on this bench.

Senate Majority Leader **Senator Chuck Schumer** confirmed the nomination of Mr. Subramanian by a vote of **58-37**.

## Reliance Industries to appoint Mr Hitesh Sethia as Jio Financial CEO



**Director (MD)** of its newly created financial services unit, **Jio Financial Services (JFS)**.

The company is preparing for a listing in India after spinning off from Reliance Industries.

**R**eliance Industries has appointed **Mr Hitesh Sethia**, as the **Chief Executive Officer (CEO)** and **Managing**

**Mr KV Kamath** was appointed as the **non-executive chairman** of Jio Financial Services in November, 2022.

## Mr Ram Chandra Poudel elected as 3rd President of Nepal



He will replace **Ms Bidya Devi Bhandari**, whose tenure ends on March 12, 2023.

In the election, **Mr Poudel defeated Mr Subash Chandra Nembang**.

Poudel received 33,802 votes & Subash Chandra Nembang got 15,518 votes.

**N**epali Congress senior leader, **Mr Ram Chandra Poudel** has been elected as the **3rd President of Nepal**.

This was the **third (3rd) Presidential election** in Nepal since it became a republic in 2008.

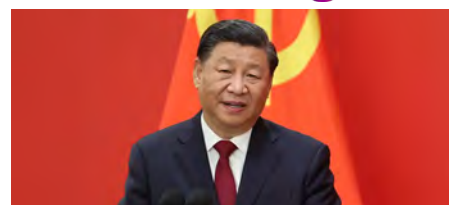
## Indian Army's Col Geeta Rana Becomes 1st Woman Officer To Command EME Unit In Ladakh



**T**he **Corps of Electronics and Mechanical Engineers (EME) Colonel Geeta Rana** became the **1st female commander** to assume control of a stand-alone field workshop in the **Eastern Ladakh** sector with **China**.

She is the **first woman officer** who is a non medical officer to command a unit in the army.

For women officers to assume leadership of the independent units, the Army filled **108 positions**. It also deployed its largest contingent of 27 women peacekeepers in Sudan's disputed region of Abyei, where they are performing security-related tasks in a challenging mission as part of the United Nations Interim Security Force (UNISFA).



## Mr Xi Jinping elected as China's president for 3rd term

**C**hina's **Mr Xi Jinping** sworn in for his **third term** as the country's head of state.

He leads the ruling Communist Party, and has become **China's longest-serving head of state** since the Communist victory in 1949.

China's 3,000-member rubber-stamp legislature has formally appointed him as President for another **5 years** during a ceremonial vote in Beijing's Great Hall of the People, China.

There was **no other candidate** in the election.

Xi has also been elected for a third term as **chairman of China's Central Military Commission**.



## RBI approves reappointment of Mr Sumant Kathpalia as MD, CEO of IndusInd Bank

**I**ndusInd Bank has announced that the **Reserve Bank of India (RBI)** has approved the **re-appointment of Mr Sumant Kathpalia** as **Managing Director (MD) & Chief Executive Officer (CEO)** of the Bank for a further period of 2 years with effect from March 24, 2023.

IndusInd Bank recorded a rise of **68.71% in profit after tax to ₹1,959.20 crore** for the quarter ended December 2022 from a profit of **₹1,161.27 crore** in the same quarter last year.

## BPCL appoints Mr G Krishnakumar as Chairman and Managing Director



**M**r G Krishnakumar has taken over as the Chairman and

Managing Director (CMD) of Bharat Petroleum Corporation Limited (BPCL) until April 2025. He replaces Mr Arun Kumar Singh, who retired as chairman in October 2022. After Mr Arun Kumar Singh, BPCL Director (Finance) Mr Vetsa Ramakrishna Gupta, was handling the additional charge of CMD.

## Ms Manmeet K Nanda appointed new managing director & CEO of Invest India



**I**n the 32nd Board Meeting of Invest India the Board appointed Ms. Manmeet K

Nanda, an Indian Administrative Service (IAS) officer of the West Bengal Cadre, as the **Managing Director (MD) & Chief Executive Officer (CEO)** (Additional charge) of Invest India until a full-time regular appointment. Ms. Nanda takes over after the resignation of Mr. Deepak Bagla.

## Mr Siddhartha Mohanty To Take Charge As LIC Chairman



**T**he Financial Services Institutions Bureau (FSIB), the headhunter for

directors of state-owned banks and financial institutions, has selected Mr Siddhartha Mohanty as the new chairman of the Life Insurance Corporation of India (LIC).

## Indian Woman Hockey Player Salima Tete appointed as AHF Athletes Ambassador



**N**ational women's hockey team midfielder **Salima Tete** was appointed as the

Asian Hockey Federation (AHF) Athletes Ambassador from India for a term of 2 years. Tete accepted the certificate and the position during the **AHF Congress in Mungyeong, South Korea**. As the AHF Athletes Ambassador, Tete, along with the other selected athletes from Asia, will play a leadership role in international representation, development, and advocacy of athletes.

## Virat Kohli named Luxor's brand ambassador



**S**tationery manufacturer Luxor Writing Instruments Private Limited has appointed cricketer **Virat Kohli** as its new **brand ambassador**. He will represent **Luxor's stationery products** and help the company increase its appeal among young writers. Indian stationery brand Luxor has partnered with **Schneider Pens of Germany** to introduce a premium range of creative writing instruments in India.

## Former Brazilian President Mrs Dilma Rousseff elected as new President of BRICS Bank



**T**he Board of Governors of the New Development Bank (NDB) also known as BRICS bank unanimously elected former president of Brazil **Mrs. Dilma Vana Rousseff** as the **President of the NDB**. She will be President of the NDB until 2025. She succeeded **Mr Marcus Troyjo** who stepped down as the president of NDB on 24th Mar, 2023.

## Mr Humza Yousaf elected as Scotland's first Muslim First Minister



The Pakistani-origin Mr Hamza Yusuf became the first Muslim 'First Minister' of Scotland. He becomes the youngest-ever leader aged 37

to lead the Scottish government. He is the first Muslim leader of a government in Western Europe. Mr Humza Yousaf has replaced Mr Nicola Sturgeon as the First minister. **The First Minister is head of the Scottish Government.** The first minister chairs the Scottish Cabinet and is primarily responsible for the **formulation, development and presentation of Scottish Government policy**

## NDTV appoints former SEBI chairman Mr U.K. Sinha as non-executive chairman & Welspun India CEO Mr Dipali Goenka as independent directors



Former Securities and Exchange Board of India (SEBI) chairman Mr UK

Sinha has been appointed as non-executive chairman and additional director of New Delhi Television Limited (NDTV) till March 26, 2025. In addition, NDTV has appointed Mr Dipali Goenka, MD & CEO, Welspun India, as Additional Director in the rank of Non-Executive Independent Women Director.

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## SS Rajamouli's RRR wins big at Hollywood Critics Association Awards 2023



**S** S Rajamouli's RRR has achieved laudable success as the spectacular action drama film bags five awards at

the Hollywood Critics Association Awards ceremony 2023 in Los Angeles, California.

The film was honoured with various category awards, five major category awards in the Best Stunts, Best Original Song (Naatu Naatu), Best Action Film, Best International Film and Spotlight award categories.



## Indian-Origin MIT Professor Hari Balakrishnan Awarded Marconi Prize

**T**he 2023 Marconi Prize has been awarded to Hari Balakrishnan, the Fujitsu Professor of Computer Science and Artificial Intelligence in the Department of Electrical Engineering and Computer Science at Massachusetts Institute of Technology (MIT).

He is also the founder of Cambridge Mobile Telematics (CMT).

The Marconi Prize is the flagship award of the Marconi Society, given annually to innovators who have made significant contributions to increasing digital inclusivity through the advancement of information and communications technology.

## President Of India Presents Sangeet Natak Akademi Fellowships And Akademi Awards



**P**resident Droupadi Murmu has presented the Sangeet Natak Akademi awards and fellowships for the years 2019, 2020 and 2021.

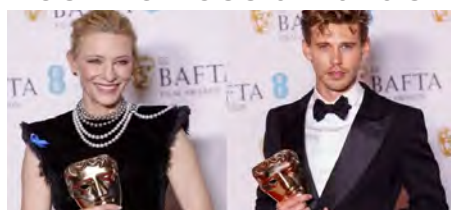
On the occasion, eight eminent

personalities were given Sangeet Natak Akademi Fellowships in the field of performing arts

A total of 128 artists from the field of music, dance, theatre, traditional, folk, and puppetry were given the Awards.

The Akademi also honoured 86 artistes with special one-time awards commemorating 75 years of India's Independence.

## BAFTA Awards for 2023 announced; Austin Butler bags Best Actor and Cate Blanchett Best Actress awards



**A**ustin Butler wins BAFTA Awards 2023 for Best Actor and Cate Blanchett for Best Actress.

The winners of the 76th British

Academy Film Awards- BAFTA Awards have been announced in London's Royal Festival Hall.

'All Quiet on the Western Front' has won a maximum of seven awards, that includes Best Film and Director.

It is a German anti-war drama which is based on the 1928 novel by Erich Maria Remarque.

Films- 'The Banshees of Inisherin' and 'Elvis'- have won four BAFTA awards.

Best Film - All Quiet on the Western Front

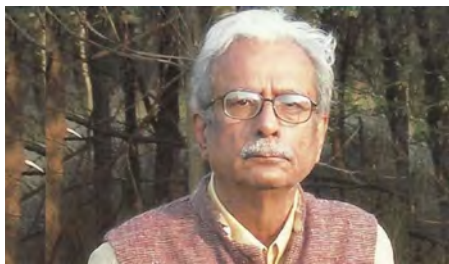
Best Film not in the English Language - All Quiet on the Western Front

Best Director - Edward Berger for All Quiet on the Western Front

Leading Actress - Cate Blanchett for Tar

Leading Actor - Austin Butler for Elvis

## Vinod Kumar Shukla has won the PEN America award for lifetime achievement in literature



**V**inod Kumar Shukla, at 87, has won the PEN America award for lifetime achievement in literature, one of the most coveted literary

prizes worldwide, after decades of composing acclaimed novels like *Naukar Ki Kameez* (1979) and poetry collections like *Sab Kuch Hona Bacha Rahega* (1992).

Shukla, whose works incorporate magic-realist elements and have won the Sahitya Akademi award and the Atta Galatta–Bangalore Literature Festival Book Prize, was born on January 1, 1937, in Rajnandgaon, Chhattisgarh.



## GSMA Award a global recognition of India's telecom reforms, and policies:

**I**ndia has won the award for implementing best practices in telecom policy and regulation.

The Minister for Communications, Electronics & IT and Railways, Ashwini Vaishnaw said "GSMA Award represents global recognition of the telecom reforms carried out by PM Modi."

He said Right of Way (RoW) permissions which used to take more than 230 days, now get approval within 8 days.

## NTPC conferred with the CBIP Award 2022 for 'Outstanding Contribution in Power Generation'



**N**TPC received the CBIP Award 2022 for 'Outstanding Contribution in Power Generation'.

The award has been presented by Union Minister R.K. Singh.

Shri Ramesh Babu V, Director (Operations) received the award on the behalf of NTPC.

NTPC is committed to generate power responsibly and sustainably.

It plays a key role in the Indian energy sector in terms of size and efficiency.

OPTCL received the 'CBIP Award 2022' for the 'Best Performing Transmission Power Sector'.



## Shipra Das gets Lifetime Achievement honour in National Photography Awards ceremony

**S**hipra Das awarded with Lifetime Achievement award at the 8th National Photography Award ceremony.

A total of 13 photographers have received National Photography awards in various categories in New Delhi.

Senior photojournalist Shipra Das was honoured with Lifetime Achievement award.

The theme of the award competition was- Cultural heritage of India (Professional category) and Life and Water (Amateur category).

## India creates history by winning two Oscars:



**I**n 95th Academy Awards ceremony, India's 'Naatu Naatu song' from SS Rajamouli's film *RRR* made history by becoming the first Indian film to win an Oscar for best original song.

Composer of the song M. M. Keeravani along with lyricist Chandrabose collected the award.

Playback singers of the Naatu Naatu song, Rahul Sipligunj and Kaala Bhairava performed the

song at the Academy Awards ceremony at the Dolby Theatre in Los Angeles in USA.

Another Indian entry in the Academy Awards 'The Elephant Whisperers' also won an Oscar in the Best Documentary Short Film category.

This 41 minutes short documentary movie by filmmaker Kartiki Gonsalves and producer Guneet Monga, explores the bond between Raghu, an orphaned baby elephant, and his caretakers.

In 2008, the song 'Jai Ho', composed by AR Rahman and penned by Gulzar, from the British film *Sl*

## Gyan Chaturvedi to be awarded Vyas Samman 2022 for 'Pagalkhana'



**N**oted Hindi writer Dr Gyan Chaturvedi's 2018 satirical novel, *Pagalkhana*, has been selected for the 32nd Vyas Samman, 2022.

Instituted by the KK Birla Foundation in 1991, the annual

Vyas Samman is given to an outstanding Hindi literary work by an Indian citizen published during the last 10 years.

It carries an award money of ₹4 lakh.

After considering the works published during 2012-2021, a selection committee headed by eminent litterateur Prof Ramji Tiwari picked Dr Chaturvedi's *Pagalkhana* (mental asylum) for the prestigious Vyas Samman.

## Journalist Dhanya Rajendran to receive Chameli Devi Jain Award for 2022



**T**he News Minute co-founder and editor-in-chief Dhanya Rajendran has been named

the 2022 recipient of the Chameli Devi Jain Award for Outstanding Women media persons. The award, named after freedom fighter Chameli Devi Jain was instituted in 1982 by The Media Foundation

## 'Ironman' Mr Krishna Prakash becomes first person to swim from Gateway of India to Elephanta Caves



**I**ndian Police Service (IPS) Officer Mr Krishna Prakash becoming the first person to swim from the Gateway of

India (located at the Chhatrapati Shivaji Marg in South Mumbai) to the famed Elephanta Caves (located at the Elephanta Island in Mumbai Harbour)

He swam the opposite direction of the famed swimming route from Elephanta Caves to the Gateway of India, covering 16.20 kilometres in 5 hours and 26 minutes.

## Bengaluru Wins First-Ever Partnership for Healthy Cities Award for effectively enforcing smoke-free laws at Global Summit

**C**apital of Karnataka, Bengaluru, has received the Partnership for Healthy Cities award at a summit in London for effective implementation of smoke-free



laws. Bengaluru has also received a cash prize of \$ 1,50,000



## Sir David Chipperfield Selected as the 2023 Laureate of the Pritzker Architecture Prize

**B**ritish architect and urban planner Sir David Chipperfield has won the 2023 Pritzker Architecture Prize. The Pritzker Architecture Prize is the highest international honour for architects. The Prize was founded in 1979 by Jay A. Pritzker and is funded by the Pritzker family and sponsored by the Hyatt Foundation.



## President Biden Awards 2021 National Humanities Medals

**U**S President Joe Biden presented the 2021 National Humanities Medals, in conjunction with the National Medals of Arts. Indian-American Vera Mindy Chokalingam, professionally known as Mindy Kaling, will be awarded the 2021 National Humanities Medal among others.



## Music Academy to confer Bombay Jayashri with Sangita Kalanidhi award



**R**enowned Carnatic vocalist and Padma Shri awardee Bombay Jayashri has been selected for the Sangita Kalanidhi award for 2023 by the Music Academy. The Nritiya Kalanidhi award for dance will be

conferred on Vasanthalakshmi Narasimhachari. The Sangita Kala Acharya award goes to Carnatic vocalist Palkulangara Ambika Devi from Kerala and mridangam player KS Kalidas, a senior disciple of mridangam maestro Palani M Subramania Pillai. Noted thavil player Thirunageswaram TR Subramaniam has been chosen for the TTK award.



## Ukrainian Rights Group Truth Hounds Wins Norwegian Prize

**U**krainian rights group Truth Hounds, which documents war crimes in the Ukraine conflict, was awarded Norway's Sakharov Freedom Award. The Norwegian Helsinki Committee human rights organisation that awards the prize called Truth Hounds "a force to be reckoned with", honouring them "for their work to document war crimes and potential crimes against humanity".



## Sacred Hopi site in Arizona awarded ICOMOS Water and Heritage Shield

**A** site Sípàapu located in Arizona, United States and sacred to the Hopi Native American Nation has been awarded a 'Water and Heritage Shield' by the International Committee On Monuments and Sites International Science Committee (ICOMOS). International Committee On Monuments and Sites is a global non-governmental organisation associated with UNESCO. Its mission is to promote the conservation, protection, use and enhancement of monuments, building complexes and sites. It is an Advisory Body of the World Heritage Committee for the implementation of the World Heritage Convention of UNESCO.

## Luis Caffarelli Has Been Awarded The 2023 Abel Prize



**L**uis Caffarelli has won the 2023 Abel prize for solving equations with geometry. He got the award for his work on nonlinear partial differential equations. Caffarelli started work on partial differential equations (PDEs) in the late 1970s and

published hundreds of papers. The Abel prize is awarded by the Norwegian Academy of Science and Letters. It is named after Norwegian mathematician Niels Henrik Abel.

The first Abel Prize was awarded in 2003 to Jean-Pierre Serre. Srinivasa S.R. Varadhan is the only person of Indian origin to have won this prize in 2007. Karen Keskulla Uhlenbeck is the only woman mathematician to win this prize.

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# RANKING & REPORTS

## West Bengal on top, Uttar Pradesh at bottom of index for literacy among children below 10 years



**W**est Bengal maintained its lead while Uttar Pradesh stood at the bottom among large state categories on the second edition of the Foundational Literacy and Numeracy Index 2022, an

indicator of literacy among children below 10 years of age.

Among smaller states, Punjab was at the top of the index while Telangana was at the bottom while Puducherry topped the index among union territories while Ladakh was the worst performer.

Among north-eastern states, Sikkim was at the top while Meghalaya was at the bottom of the index.



## Reliance Jio second-strongest telecom brand in the world

**R**eliance Jio has climbed up to number two rank up from fifth place last year in a list of the top 10 strongest telecom brands in the world.

The list is by UK-based Brand Finance, a leading brand valuation company, and part of its latest global report on the world's 150 most valuable telecom brands for 2023.

The rankings are based on a Brand Strength Index score which looks at various metrics that include evaluating marketing investment, stakeholder equity, and business performance.

Reliance Jio is behind only Swisscom and ahead of Etisalat, MTC, and Singtel.

## Karnataka, Gujarat ranked best performing Indian states in clean energy transition efforts: IEEFA



**K**arnataka and Gujarat are the top states in adopting clean energy transition.

Institute for Energy Economics and Financial Analysis (IEEFA) has published a joint report.

As per the report, in the clean

energy adoption, Karnataka and Gujarat have made maximum progress.

West Bengal, Bihar, and UP are lagging far behind in the adoption of clean energy.

These states have to increase their renewable energy generation potential.

Rajasthan and Tamil Nadu have to improve the readiness of their power ecosystems for a clean electricity transition.

## WABAG ranked 3rd globally among "Top 50 Private Water Companies"



**C**hennai-based water technology firm Va Tech Wabag Ltd. (Wabag) said it had been ranked among the top three water companies globally by Global Water

Intelligence (GWI), London, for ensuring safe and clean drinking water and sanitation to more than 88.8 million people across the globe.

U.K.-based GWI is a water data analytics and publishing company.

Each year it publishes a list of the world's top 50 private operators.

## India Ranks 108th on Electoral Democracy Index 2023



**I**ndia ranks 108th in the Electoral Democracy Index of the V-dem Democracy report 2023.

India ranks below countries such as Tanzania, Bolivia, Mexico, Singapore and even Nigeria.

In 2022, India's ranking was 100th position in Electoral Democracy Index (EDI).

**India has been ranked 97th in the Liberal Democracy Index.**

India has been placed in the bottom 50 percent of the LDI index.

**Denmark is in the first position** with a score of 0.89 in the Liberal Democracy Index.

**Sweden is in the second spot** with a score of 0.87 while Norway is in the third spot with a score of 0.86.



## India among the largest coking coal importers in 2022

**I**ndia has emerged as one of the highest global importers of coking coal (and pulverised coal injection) at **69 million tonnes (mt)**, accounting for **22 per cent** of the world's shipments in the calendar year 2022, as per data collated by market research firm CoalMint. China is the second largest importer of coking coal at **63.8 mt, up 17 per cent YoY, as against 54.7 mt in 2021**. As per CoalMint data, USA was the third largest supplier of **coking coal at 7 mt, up 126 per cent YoY**.

## Delhi airport one of the best, cleanest in Asia Pacific: ACI

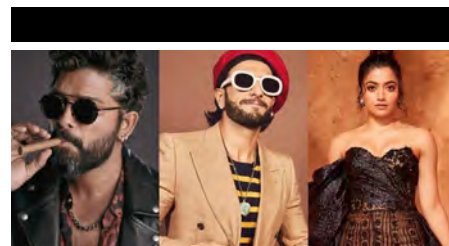


**A**s per ACI, Delhi airport is one of the best and cleanest airports in Asia Pacific.

Indira Gandhi International

Airport (IGIA) has won the award for Air Service Quality (ASQ) best airport for 2022 in the category of more than 40 million passengers per annum (MPPA).

Tiruchirappalli International Airport in Tamil Nadu has been adjudged as the **best airport in Asia Pacific region by ACI** in the category of 2 million passengers annually.



## Ranveer Singh emerges on top as India's 'most valued celebrity of 2022'

**A**ccording to the report, titled "Celebrity Brand Valuation Report 2022: Beyond the Mainstream" Actor Ranveer Singh has become the 'Most valued celebrity of 2022', He with a brand value of **\$181.7 million** surpassed cricketer Virat Kohli. Kohli is in second position with a brand value of **\$176.9 million**. Actor Akshay Kumar is in the third position with a brand value of **\$153.6 million**. For the first time, South Indian stars Allu Arjun and Rashmika Mandanna got a place in the top **25 celebrities of India**.

## NTPC has been ranked as the top independent power producer and energy trader globally: S&P Platts



**N**TPC Limited, the country's largest power generating company has been ranked **No.1 Independent Power Producers and Energy**

Traders Globally in the S&P Global Commodity Insights Top 250 Global Energy Company Rankings®-2022. These rankings are based on four key metrics-asset worth, revenues, profits and return on investment. By 2032, **NTPC is targeting non-fossil fuel-based capacity to make up nearly 50 per cent of the company's portfolio, which includes renewable energy capacity of 60 GW and total portfolio of 130GW.**

# Finland Tops World Happiness Report



On 20th March every year, the world celebrates World Happiness Day and the UN Sustainable Development Solutions Network releases an annual report named World Happiness Report. Finland tops the ranking for the sixth year

in a row with a score of 7.8 and other Norwegian countries like Denmark, Iceland are ranked second and third. In the list of top 10, other countries are Israel, Netherlands, Sweden, Norway, Switzerland, Luxembourg and New Zealand.

The countries are ranked on the basis of healthy life expectancy, GDP per capita, social support, low corruption, generosity in a community where people look after each other, and freedom to make key life decisions.

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# Women's literacy rate has jumped to 77%:



According to the World Bank India report, only 1 of 11 girls was literate at the time of India's independence, about nine percent. And at present, the women's literacy rate has jumped to 77% while India's male literacy rate stands at 84.7%.

country with 92.2%, followed by union territory Lakshadweep (91.85%). Whereas Bihar has the lowest literacy rate in India at 61.8%, followed by Arunachal Pradesh at 65.3% and Rajasthan at 66.1%. The literacy rate in rural India is 67.77% as compared to 84.11% in urban India.

As per the government's National Sample Survey report, Kerala is the most literate state in the

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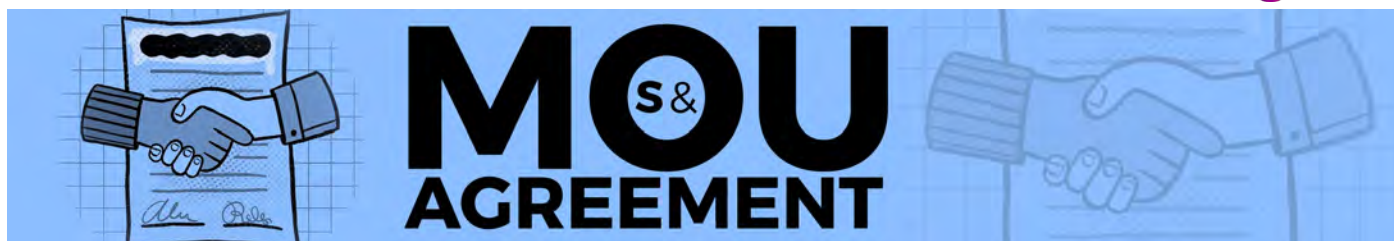
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## Kerala Signs MoU with UN Women To Empower Women in Tourism



**K**erala entered into an agreement with UN Women, boosting women-friendly activities in the State's tourism sector by training stakeholders who include young representatives and civil organisations.

A memorandum of understanding signed by Kerala Tourism Director P.B. Nooh and UN Women India representative

Susan Ferguson agreed to work towards promoting gender-inclusive tourism sites in the State.

The Responsible Tourism Mission will be the implementing agency for the MoU.

As per the pact inked at the first-ever Global Responsible Tourism Summit in Kumarakom, both parties will promote women-friendly tourism in Kerala.

The MoU will strive to build synergies with other flagship programmes of the State and help in rectifying social attitudes that are checking gender-inclusive public spaces in tourism.

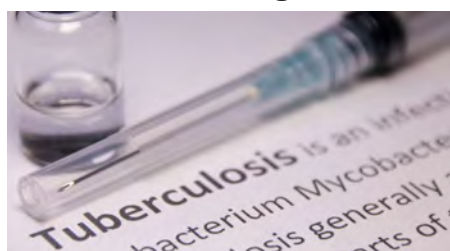


## Mpower signs MoU with NIMHANS to support implementation of Tele MANAS in India

**M**power, a mental health initiative from the Aditya Birla Education Trust, is collaborating with NIMHANS (National Institute of Mental Health and Neuro-Sciences) towards expanding the implementation of Tele MANAS mental health support services across India.

NIMHANS will provide Mpower access to the platform, operating guidelines, training and mentoring, monitoring and the framework needed to operate the centres.

## IIT Madras partners with GIC to develop Urine-based TB diagnosis tech



**T**he IIT Madras is partnering with the General Insurance Corporation of India (GIC Re) to develop a urine-based tuberculosis diagnosis or screening.

The envisaged product is anticipated to be faster and far more affordable than the existing point-of-care diagnostic kits available for various diseases such as blood glucose monitors. The know-how and the relevant technologies will be made

available to start-ups or diagnostic kit manufacturers.

It was incorporated on 22 November 1972 under Companies Act, 1956

## Tata Motors and Uber sign an MoU for 25k EV deliveries in India



**T**ata Motors, India's largest electric passenger vehicle manufacturer, has signed

an agreement with ride-hailing company Uber to supply 25,000 electric vehicles (EVs).

Under the agreement, Uber will deploy Tata Motors' XPRES-T EVs by partnering fleet operators in Delhi National Capital Region, Mumbai, Kolkata, Chennai, Hyderabad, Bengaluru, and Ahmedabad.

## Ministry of Rural Development and Meesho Sign MoU to Onboard Rural Women as Online Sellers



The Ministry of Rural Development and Meesho, one of India's major online marketplaces, signed a memorandum of understanding

(MoU) to drive digital inclusion of all women registered under State Rural Livelihood Missions (SRLMs) and enable them to sell online.

The partnership will give impetus to Meesho's ongoing efforts to onboard rural women entrepreneurs in various states and enable them to launch and grow their businesses online.

## India, Australia Sign Framework Mechanism For Mutual Recognition of Education And Skill Qualifications



India and Australia signed a 'Framework Mechanism for Mutual Recognition of Qualifications' that will help ease the mobility of students and professionals between the two countries.

The agreement was signed following a bilateral meeting in New Delhi between Union Education Minister Dharmendra Pradhan and his Australian counterpart Jason Clare.

At least 11 institutional-level memorandums were also exchanged between India and Australia's university sectors, which will promote research and academic collaborations between the two countries in several key sectors.

## India & Australia agree to bolster Comprehensive Strategic Partnership at 1st India-Australia Annual Summit in New Delhi



Prime Minister Shri Narendra Modi and Prime Minister of Australia Mr Anthony Albanese held bilateral talks in New Delhi.

During the first India-Australia Annual Summit, both countries

committed to further deepening the Comprehensive Strategic Partnership.

Both countries exchanged MoU for cooperation in sports and audio-visual co-production.

It is expected to reach 45 to 50 billion dollars by the year 2023.



## India, Mexico sign MoU on research, technology and innovation collaborations

India and Mexico signed an agreement on research, technology and innovation cooperation in New Delhi.

This particularly includes aerospace, electronics, ocean science, biotech and several major technology sectors involved which further involve healthcare.

Science and Technology Minister Dr Jitendra Singh and Foreign Minister of Mexico Marcelo Ebrard were present on the occasion.



## Samunnati partners MP Govt to promote sustainable agri practices

Samunnati has signed a memorandum of understanding with the Madhya Pradesh government, facilitated by Heartfulness Institute, Hyderabad. This association aims to strengthen the Chief Minister's Community Leadership Development Programme (CMCLDP) of Madhya Pradesh

## Ministry of Rural Development has signed a MoU with the Ministry of Ayush to collaborate in making Lakhpati Didis from the SHGs



**T**he Ministry of Rural Development has signed a MoU with the Ministry of Ayush to collaborate in making Lakhpati Didis from the SHGs.

Lakhpati Didis are women with annual earnings of Rs. 1 lakh and more. The Ministry of Rural Development launched the Lakhpati Didi initiative on creating Lakhpati SHG women. Earlier, the Uttarakhand government launched 'Lakhpati Didi Yojana' to make 1.25 lakh women from self-help group 'Lakhpati' by 2025.

## SIBC Signs MoU In Sustainable Infrastructure, Defence Manufacturing With Maharashtra Government



**T**he Maharashtra Industrial Development Corporation (MIDC), Government of Maharashtra and the Sweden India Business Council (SIBC)

signed a memorandum of understanding (MoU) for sustainable infrastructure and defence manufacturing.

The MoU will focus on waste to energy (green initiatives), financial services including export credit financing agencies in Sweden, sustainable infrastructure and transportation and defence sector manufacturing.

## Air Force Technical College, IISc Bangalore sign MoU to promote academic cooperation and research in defence related areas



**A**ir Force Technical College and IISc Bangalore have signed MoU. The MoU will promote academic cooperation and research in defence related

areas. The MoU was signed by Air Commodore Ratnesh Gupta from the Technical College and Captain Sridhar Warriar from Indian Institute of Science. Air Force Technical College was established in July 1949. It is located in Bangalore.



## NAFED signs MoU with Agriculture Ministry to support millet initiatives

**A**griculture marketing cooperative NAFED has signed an MoU with the Ministry of Agriculture to extend its support on the various government initiatives to promote millets, under which start-ups will get additional market access to sell their products. Agriculture Minister Narendra Singh Tomar has directed NAFED to contribute and promote the "International Year of the Millet 2023" (Iyom-23) on a global scale.



## WE Hub ties up with Australia's Cyber West Sign to boost opportunities for Australian, Indian startups

**W**E Hub, a state-led incubator for women entrepreneurs, signed a Memorandum of Understanding (MoU) with Cyber West Sign, an Australian digital marketing agency, to promote cross-border opportunities for startups in both countries.

# SCIENCE & TECHNOLOGY



## Roscosmos launches Soyuz spacecraft to bring back 3 astronauts stranded on ISS



Russian space agency Roscosmos has successfully launched the Soyuz MS-23 spacecraft to bring back 3 astronauts stranded on the International Space Station (ISS) following a leak in the cooling

system in their Soyuz capsule. The unmanned Soyuz MS-23 lifted off from Baikonur space centre in Kazakhstan and had been placed in orbit. Russian cosmonauts Sergey Prokopyev and Dmitry Petelin and U.S. astronaut Francisco Rubio had been due to end their mission in March. According to the Russian space agency Roscosmos, all 3 Soyuz will return to Earth on the MS-23 vehicle in September, 2023.



## NASA hands over NISAR satellite to ISRO

The US Space Agency National Aeronautics and Space Administration (NASA) has handed over the Earth observation satellite, NASA-ISRO SAR (NISAR) to Indian Space Research Organisation (ISRO) at Bengaluru, Karnataka. SAR stands for 'Synthetic Aperture Radar' technique, responsible for producing high-resolution images from a resolution-limited radar system that NASA has used to measure changes in Earth's surface. NISAR is an earth observation satellite. It is jointly developed by NASA and ISRO. It was envisioned by NASA and ISRO in 2014 for the powerful demonstration of the capability of radar as a science tool.

## ISRO successfully conducts flight test of cryogenic engine for Chandrayaan-3 mission



The Indian Space Research Organisation (ISRO) has successfully conducted the flight acceptance hot test of the CE-20 cryogenic engine.

The Engine will power the Cryogenic Upper Stage of the LVM3 (Launch Vehicle Mark-3) for the Chandrayaan-3 mission at the ISRO Propulsion Complex, Mahendragiri in Tamil Nadu (TN). It has been designed and developed by the Liquid Propulsion Systems Centre

(LPSC), a subsidiary of ISRO. It is the first Indian cryogenic engine to feature a gas-generator cycle. It is one of the most powerful upper-stage cryogenic engines in the world. This engine develops a nominal thrust of 186.36 kN in vacuum.

## IIM Kashipur's entrepreneurship event Uttishtha 2023 facilitates ₹5 crore funding for agri start-ups



The Indian Institute of Management (IIM) Kashipur Foundation for

Innovation and Entrepreneurship Development (FIED) helped facilitate Rs 5 crore funding for 15 agri start-ups at its annual entrepreneurship summit, 7th edition of Uttishtha 2023.

The initiative was supported by the Ministry of Agriculture and Farmers Welfare, Government of India (GoI).



## China Launches Communications Satellite Zhongxing-26 Into Orbit



**C**hina launched **Zhongxing-26 (ChinaSat-26)**, a communications satellite into **geosynchronous transfer orbit (GTO)** by a **Long March 3B rocket** lifted off from **Xichang Space Centre (XLSC)**, southwest China. It is **China's first satellite** providing more than 100 gigabits

per second (Gbps) and was developed by **China Aerospace Science & Technology Corporation's (CASC) China Academy of Space Technology (CAST)**.

It is the 5th Long March launch this calendar year, with CASC planning more than 60 launches in 2023.

The satellite is equipped with **94 Ka-band user beams**.

This is 3.5 times more than the 26-beam, 20 Gbps, Dongfanghong-3B-based Zhongxing-16 launched in 2017.

## North Korea tests nuclear underwater attack drone Haeil generate 'radioactive tsunami'



**N**orth Korea has tested a nuclear-capable underwater attack drone

called '**Haeil**' (meaning "tsunami" in Korean) the first weapon of its kind capable of generating a radioactive tsunami that can destroy naval strike groups and major ports. The drone cruised underwater at a depth of **80 to 150 metres (260-500 ft)** for over **59 hours during the test**.

## ISRO successfully launches LVM3-M3/OneWeb with 36 satellites from Andhra Pradesh



**T**he Indian Space Research Organisation (ISRO) successfully launched the **LVM3(Launch Vehicle Mark III)-M3/OneWeb India-2 mission with all 36 satellites** deployed into intended orbits. The mission launch took place from the

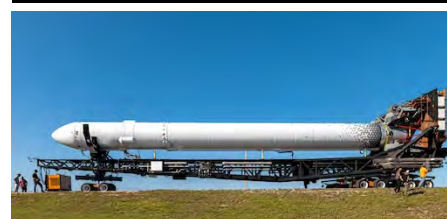
second launch pad at the iconic **Satish Dhawan Space Centre at Sriharikota (SDSC-SHAR) spaceport off the Andhra Pradesh coast**

This was the second mission operated by the ISRO for the OneWeb subsidiary Network Access Associates Ltd, United Kingdom under a commercial agreement with the NewSpace India Ltd (NSIL) to launch **72 satellites into Low Earth Orbits (LEO)**.



## Chinese tech giant Baidu unveils ChatGPT rival Ernie Bot

**C**hinese tech company **Baidu** has launched its own **Artificial Intelligence (AI)-powered chatbot, Ernie Bot**, based on its deep learning model Ernie (short for "**enhanced representation through knowledge integration**"). The first version of Ernie Bot was developed in 2019.



## World's First 3D Printed Rocket 'Terran 1' Launched in 3rd attempt

**T**he world's first 3D-printed rocket **Terran 1** launched successfully on its **third attempt**, but failed to achieve orbit during second-stage separation. It was launched from **Complex 16 at Canaveral's US Space Force Station**. Terran 1's engines are powered by liquid oxygen and liquid natural gas. It is built by California aerospace startup **Relativity Space**. **85% of its mass is 3D printed** with metal alloys, including the engines. It is made with the **world's largest 3D metal printers**.



## First MCA Barge Launched by Indian Navy



Russian space agency Roscosmos has successfully launched the Soyuz MS-23 spacecraft to bring back 3 astronauts stranded on the International Space Station (ISS) following a leak in the cooling

system in their Soyuz capsule. The unmanned Soyuz MS-23 lifted off from Baikonur space centre in Kazakhstan and had been placed in orbit.

Russian cosmonauts Sergey Prokopyev and Dmitry Petelin and U.S. astronaut Francisco Rubio had been due to end their mission in March.

According to the Russian space agency Roscosmos, all 3 Soyuz will return to Earth on the MS-23 vehicle in September, 2023.



## First MCA Barge Launched by Indian Navy

The first Missile cum Ammunition (MCA) Barge, Yard 75 (LSAM 7) was launched by Rear Admiral Sandeep Mehta at Guttenedevi, launch site of SECON, Visakhapatnam, Andhra Pradesh (AP).

With all major and auxiliary equipment/systems sourced from indigenous manufacturers, this Barge is proud flag bearer of the "Make in India" initiative of the Ministry of Defence (MoD).

The Barge is being built with a service life of 30 years.

## Indian Air Force to participate in multinational exercise Cobra Warrior in UK



two C-17 Globemaster and one IL-78 mid-air refueler aircraft of the Indian Air Force, will participate in the exercise.

Indian Air Force (IAF) will take part in multinational Exercise Cobra Warrior at the Waddington Air Force Base of the Royal Air Force in the United Kingdom (UK).

The exercise is scheduled from 6th of March to 24th of March, 2023.

An IAF contingent consisting of 145 airmen departed from Jamnagar Air Force Station to participate in Exercise Cobra Warrior.

Five Mirage 2000 fighter aircraft,

## Indian Air Force transport aircraft Exercise Shinyuu Maitri with Japan's Air Self-Defense Force



The Indian Air Force (IAF) is participating in Exercise Shinyuu Maitri with the Japan Air Self-Defence Force (JASDF).

The exercise will enhance mutual understanding and

interoperability between the two air forces.

It is a bilateral military exercise between IAF and JASDF.

The exercise is being organized on the sidelines of the Indo-Japan Joint Army Exercise, Dharma Guardian.

The IAF contingent is participating in the exercise with one C-17 Globemaster III

Meanwhile, the JASDF is participating in the exercise with C-2 transport aircraft.

## Indian Navy's TROPEX 2023 exercise culminated in the Arabian Sea



from November 2022 to March 2023, culminated in the Arabian Sea.

The exercise concluded with the participation of approximately 70 Indian Navy ships, 6 submarines and over 75 aircraft.

Indian Navy's major Operational level exercise Theatre Level Operational Readiness Exercise TROPEX - 2023, conducted across the expanse of Indian Ocean Region (IOR) over a duration of 4 months

The overall exercise constructs included the coastal defence exercise "Sea Vigil" 2022 and the amphibious exercise 2023 "AMPHEX".

## Colombia opens military service to women for 1st time in 25 years



Colombia has allowed women to join the military for the first time in 25 years.

A cohort of 1,296 women have been enlisted in Colombia's Army, February, 2023.

It is part of an effort to increase the share of women in the military.

Colombia has long had compulsory military service for males aged 18 to 24.

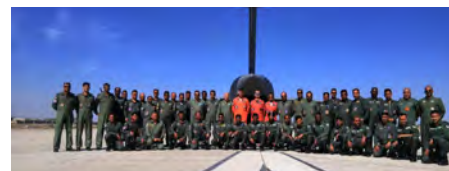
The new push to allow females to enlist comes as Colombia's congress debates a bill that would eliminate compulsory military service and enable young men to replace it with internships in educational programs, environmental projects or human rights initiatives.

## Indo-France Joint Military Exercise - Frin-jex-2023 to commence at Kerala



The maiden Joint Military Exercise FRINJEX-23 between Indian Army and French Army will be conducted at Pangode Military Station in Thiruvananthapuram, Kerala on March 7-8, 2023. For the first

time, armies of both countries are engaging in this format with each contingent comprising a Company Group.



## 8 aircraft of the Indian Air Force landed at a Royal Saudi Air Force base

In a historic first, 8 aircraft of the Indian Air Force (IAF) landed at a Royal Saudi Air Force base heralding a new chapter in the defence relationship between the two countries.

The Indian contingent comprising 145 Air Warriors with its complement of 05 MIRAGE, 02 C17 and 01 IL 78 tankers had an overnight halt in the Kingdom.

The Base Commander welcomed the Indian Air Warriors and wished them all the best for the forthcoming Cobra Warrior 23 exercise.

Defence relations between India and Saudi Arabia have made significant progress in the last few years.

Recently a large delegation from the Saudi side also participated in the Aero India Show in Bengaluru, Karnataka.



## Indian Navy's INS Sumedha Participates in 'NAVDEX 23' & 'IDEX 23'

The Indian Navy's Indian Naval Ship (INS) Sumedha took part in two significant regional naval and defence exhibitions: the United Arab Emirates' (UAE) IDEX 23 (International Defense Exhibition) and NAVDEX 23 (Naval Defense Exhibition 23), both of which took place in Abu Dhabi, UAE, from February 20 to 24, 2023.

## First ever Privately Manufactured Indigenised fuze of ASW rocket handed over to Indian Navy



The Indian Navy (IN) received for the first time a fully indigenised fuze YDB-60 for underwater Anti Submarine

Warfare (ASW) Rocket RGB (Rocket Guided Bomb) -60 used from major warships, through a private manufacturer M/s Economic Explosives Limited (EEL), Nagpur, Maharashtra, India.

This would be the first time the IN has placed a supply order for underwater ammunition fuze on an Indian Private industry.

## 2nd edition of Africa-India joint military exercise AFINDEX-2023 begins in Pune



The Second (2nd) edition of the Africa-India Field Training Exercise (AFINDEX), a nine-day mega military exercise between India & 23 African nations began in Pune, Maharashtra, India. The theme

of the exercise is "humanitarian mine action and peacekeeping operations,"

### Participating Countries

Botswana, Cameroon, Egypt, Equatorial Guinea, Eswatini, Ethiopia, Ghana, Kenya, Lesotho, Malawi, Morocco, Niger, Nigeria, Republic of Congo, Rwanda, Seychelles, Senegal, Sudan, South Africa, Tanzania, Uganda, Zambia and Zimbabwe.

## India & UK hold Bilateral maritime exercise 'Konkan' in Arabian Sea



The annual bilateral maritime exercise between the Indian Navy (IN) of India and the Royal Navy of the United Kingdom (UK), Konkan 2023, was

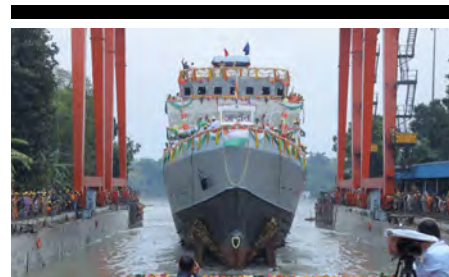
held from 20 to 22 Mar 23 off the Konkan coast in the Arabian Sea.

### Participants :

Indian Navy : Indian Naval Ship (INS) Trishul, a guided missile frigate

Royal Navy : HMS Lancaster, a Type 23 guided missile frigate

The Konkan series of exercises was started in 2004 & since then, the exercise is conducted by both the navies in rotation.



## 2nd ship of Anti-Submarine Warfare Craft INS Androth launched In Kolkata

Indian Navy's second anti-submarine warfare Shallow Water Craft (ASW SWC) warship named Indian Naval Ship (INS) Androth has been launched in Kolkata, West Bengal. Vice admiral Dinesh K Tripathi, commanding-in-chief, Western Naval Command was the chief guest at the occasion. INS Androth was built by Garden Reach Shipbuilders & Engineers (GRSE), Kolkata, West Bengal for the Indian Navy.



## Russia delivers the 3rd regiment of S-400 'Triumf' to India

Indian Air Force (IAF) has received the 3rd regiment of the S-400 'Triumf' air defence missile system from Russia and this will be deployed along the Pakistan border. Russia delivered the first two systems to India in December 2021 and April 2022, respectively, and the country intends to deliver the remaining two systems by the end of 2023. It has a range up to 400 km and it has the tracking capability of almost 600 kms.

# ACQUISITIONS & MERGERS

## Axis Bank completes acquisition of Citibank India's consumer business in Rs 11,603-cr



Private sector lender **Axis Bank** has completed the acquisition of Citibank's India consumer business and non-banking financial company (NBFC) consumer business. The cash consideration for the

acquisition stands at ₹11,603 cr (USD 1.4 billion).

Axis Bank is the **4th-largest issuer** of credit cards with a total base of 8.6 million cards and the deal will add about **2.5 million credit cardholders**, making it one of the top three card businesses in the country.

Citi's retail book is nearly Rs 68,000 crore, of which retail loans account for Rs 28,000 crore.



## Fintech unicorn Slice picks up 5% stake in North East Small Finance Bank

Payment app **Slice** has invested **\$3.42 million** to acquire a **5% equity stake** in Guwahati-based North East Small Finance Bank.

An investment of up to **5%** in a bank does not require approval from the **Reserve Bank of India (RBI)**.

Additional stake purchases will need the banking regulator's clearance.

Slice had received an in-principle approval for a **prepaid payment instrument (PPI)** licence from the RBI.

## Softbank sold a 3.8% stake in Delhivery for Rs 954 crore



Japanese conglomerate **Softbank** divested **3.85% or 2.8 crore** shares of its stake in Gurgaon-based logistics firm Delhivery for **Rs 954 crore** through open market transactions. SoftBank is the largest public stakeholder in the logistics

company, holding an **18.42%** stake as of December 31, 2022, through its entity SVF Doorbell (Cayman) Ltd. Softbank acquired over **22% stake** in the company in October 2018.

On **February 22, 2023**, New York-based investment firm Tiger Global sold 1.23 crore shares of Delhivery to raise Rs 414 crore.

Tiger Global held a **4.68% stake** in the company on December 31, 2022.

## Bank of Baroda board approves 49% stake divestment in BFSL



The Bank of Baroda (**BoB**) board has approved up to **49% divestment** in its wholly owned subsidiary **BoB Financial Solutions**

Ltd (BFSL).

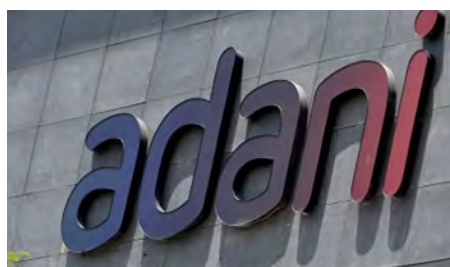
**BoB** currently holds **100%** of the total **equity share capital of BFSL**. The board has also given approval to issuance of an advertisement inviting Expressions of Interest (Eoi) from **investors/ strategic partners to acquire BoB's shareholding in BFSL**.

## HSBC buys UK arm of Silicon Valley Bank for ₹99, gets deposits worth US\$ 8.1bn



The United Kingdom (UK) Treasury and the Bank of England have facilitated a private sale of the UK subsidiary of the collapsed Silicon Valley Bank to HSBC Holdings Plc's 'ring-fenced subsidiary' for 1 pound sterling (₹99). The move secures the deposits of over 3,000 SVB UK customers with deposits of more than \$US8.1 billion.

## Adani Power amalgamates 6 subsidiary companies



Adani Power has amalgamated its 6 subsidiaries, including Adani Power (Mundra), with itself. An amalgamation of 6 wholly-owned subsidiary companies of Adani Power Ltd (APL) -

Adani Power Maharashtra Ltd (APML)

Adani Power Rajasthan Ltd (APRL)

Udupi Power Corporation Ltd (UPCL)

Raipur Energen Ltd (REL)

Raigarh Energy Generation Ltd (REGL)

Adani Power (Mundra) Ltd (APMuL)

## Midfielder Hardik Singh and Savita Punia were conferred with the men's and women's Indian Hockey Player of the Year awards 2022



The 24-year-old Hardik beat illustrious senior players like Manpreet Singh and Harmanpreet Singh to win the coveted award for 2022, named after hockey legend Balbir Singh Sr, at the fifth Hockey India Annual Awards. **Hardik was the most impressive player for India in the FIH World Cup held in Odisha in January before being ruled out of the tournament due to a hamstring injury. Savita had led India to the FIH Women's Nations Cup title in December to book a berth in the women's Pro League.**

## Australia Beat South Africa To Win 6th T20 WC Title



**A**ustralia won the ICC Women's Twenty20 World Cup 2023 title.

Australia defeated South Africa by 19 runs in the final match played in Cape Town.

Chasing a target of 157 runs for the win, the South African team

could manage only 137 runs at the loss of six wickets in the stipulated 20 overs.

Australia has lifted the ICC Women's Twenty20 World Cup trophy for the sixth time.

Australia's previous victories came in 2010, 2012, 2014, 2018 and 2020.

**Beth Mooney** has won the Player of the Match.

**Ashleigh Gardner** has won the Player of the Tournament.

International Cricket Council organises the event, with the first edition held in England in 2009.

Bangladesh would host the 2024 tournament and England would host the 2026 tournament.

## ACF confers Grandmaster D Gukesh with the Player of the Year award



**I**ndian Grandmaster D Gukesh has been honored with the Player-of-the-Year award by the Asian Chess Federation (ACF) for clinching the gold medal with a record-breaking

score of 9/11 in the 44th Chess Olympiad at Mahabalipuram last year.

In March last year, Gukesh became only the sixth Indian to break the 2700 Elo-rating mark, and the youngest Grandmaster from the country to be rated above 2700.

The All India Chess Federation (AICF) bagged the 'Most Active Federation' award conferred during the ACF annual summit.

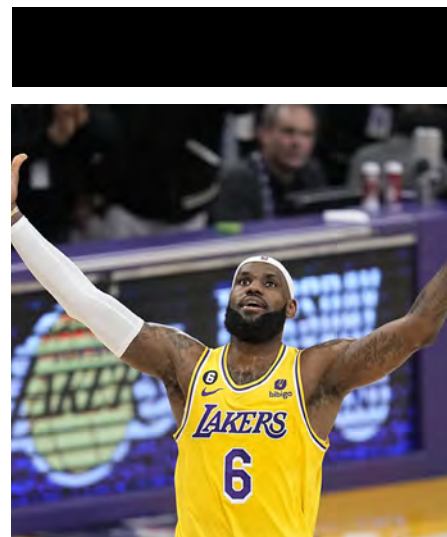
## Hockey India appoints South African Craig Fulton as new Chief Coach of Indian men's hockey team

**M**en's National Hockey Team of India designates South Africa's **Craig Fulton** as the new Chief Coach.

The team previously failed to lend

the World Cup at home.

**Craig Fulton** has replaced the Australian Hockey Player **Graham John Reid** who bid farewell after the country's disappointing



## LeBron James surpasses Kareem Abdul-Jabbar's NBA all-time scoring record

**L**eBron James has confirmed his status as one of the most dominant NBA players in history after passing Kareem Abdul-Jabbar's all-time scoring record.



show in the World Cup.

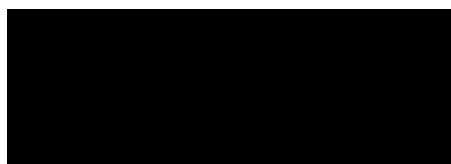
Under the guidance of John Reid, the Indian team was led to a historic bronze medal-winning show at the Tokyo Olympics.

## Sayantan Das becomes India's 81st Grandmaster



**S**ayantan Das became India's 81st Chess Grandmaster as well as the 11th player from West Bengal to bag the honour after he crossed the 2500-mark in live ratings and won the Cannes Open with a score of 7.5 out of 9.

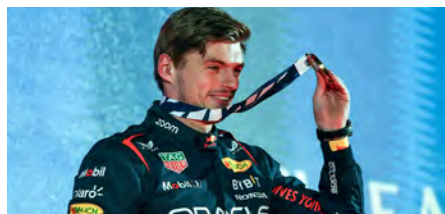
The 26-year-old had achieved his final GM norm in 2017 but had to wait 6 years to cross the 2500-mark in order to become a grandmaster.



## Mirabai Chanu wins BBC Indian Sportswoman of the Year for a second time



**M**irabai Chanu has won the BBC Indian Sportswoman of the Year (ISWOTY) award for the second consecutive time.



## Red Bull's Max Verstappen wins Bahrain Grand Prix

**D**efending champion Max Verstappen and Red Bull flexed their muscles at the start of the 2023 season, as the Dutchman won the season-opening race in Sakhir Bahrain Grand Prix by over 10 seconds over his teammate Sergio Perez. It was the first time he had won in Bahrain and also the first time he had triumphed in a Formula One opener.

Seven times world champion Lewis Hamilton was fifth for Mercedes with Canadian Lance Stroll giving Aston Martin a bumper points haul with sixth.



## Karnataka beats Meghalaya to clinch Santosh Trophy football

**K**arnataka defeated Meghalaya by 3-2 to win the Santosh Trophy football after 54 years.

Karnataka won the Santosh Trophy National Football Championship.

It defeated Meghalaya by 3-2 in a final at the King Fahd International Stadium in the Saudi Arabia capital, Riyadh.



**T**he 'Rest of India' team defeats Madhya Pradesh to lift the prestigious Irani Cup title.

In the final match, the Rest of India defeated Madhya Pradesh by 238 runs.

Chasing the target of 437 runs for victory, the entire Madhya Pradesh team was reduced to 198 runs in 58.4 overs.

Irani Cup is a major domestic-level cricket competition in India.

This final match was played at Captain Roop Singh Stadium in Gwalior.

The 2022-23 edition was the 59th edition of the Irani Cup.

It is the first-class cricket competition in India.

## Irani Cup: Rest of India beat Madhya Pradesh to win title





## Youth Affairs, Sports Minister Anurag Thakur launches Yuva Utsava - India@2047 from Ropar in Punjab



**S**ports Minister Anurag Thakur launched Yuva Utsava - India@2047 from Ropar in Punjab.

In the first phase, Yuva Utsava is being held in 150 districts across

India to promote youth power till 31st March 2023.

Schools and colleges of the districts are conducting programmes in the first phase. Yuva Utsava - India@2047 is being conducted by Ministry of Youth Affairs and Sports through Nehru Yuva Kendra Sangathan in all districts across India.

The theme for the Yuva Utsav will be Panch Pran.

## ATK Mohun Bagan crowned ISL champions after penalty shootout win over Bengaluru FC



**A**TK Mohun Bagan held their nerves in a tightly contested Indian Super

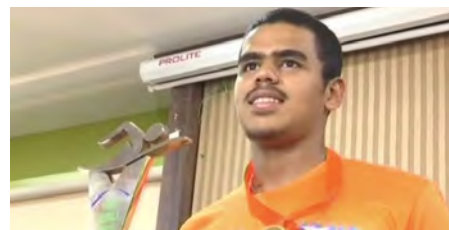
League final to beat Bengaluru FC 4-3 on penalties and lift their maiden title. Since the league's inaugural edition, six clubs - ATK FC (3), Chennaiyin FC (2), Bengaluru FC (1), Mumbai City FC (1), Hyderabad FC (1) and ATK Mohun Bagan (1) - have been crowned as the Champions.

## ISSF World Cup Shooting Championship to begin at Bhopal in Madhya Pradesh



**T**he International Shooting Sports Federation (ISSF) World Cup Shooting Championship started in Bhopal and will continue till March 27. The Government of Madhya

Pradesh in collaboration with the Rifle Federation of India is organising the Championship. This year, the eighth World Cup is being hosted in India, and it is the first international shooting competition to take place outside of New Delhi. In 2022, the championships were held in Cairo, Egypt from 12-27 October 2022.



## Swimmer Sampanna Ramesh Shelar becomes fastest Indian in U21

**P**une-based swimmer, Sampanna Ramesh Shelar has become the fastest Indian in under 21 group to swim across the Palk Strait from Talaimannar in Sri Lanka to Dhanuskodi in Tamil Nadu in 5 hours and 30 minutes. The previous record was 8 hours and 26 minutes. His swim commenced at 6.00 am from Talaimannar and he reached Dhanushkodi at 11.26 am completing the distance of 29 Kms. He is a Bachelor of Physical Education student and trains under the guidance of Mr. Jitendra Khasnis.



## Rohan Bopanna becomes oldest tennis player to win ATP Masters 1000 title

**R**ohan Bopanna becomes the oldest player to have won the Men's Doubles title at the ATP 2023 Series. While another Tennis player Carlos Alcaraz was honoured with the World's No. 1 Rank in the Men's Singles category.

## Stadium Named After Hockey Star Rani Rampal, First Woman To Get This Honour



**R**ani Rampal becomes the first women's hockey player to have a stadium named after. The Modern Coach

Factory, Raebareli has renamed the hockey stadium as 'Rani's Girls Hockey Turf'. Earlier this year, Rani Rampal made a comeback to the Indian team during the tour of South Africa. Rani Rampal is the former captain of the Indian women's hockey team. Under his leadership, the team reached the final of hockey tournament at the Tokyo Olympics.

## Pankaj Advani Beats Brijesh Damani to Retain Asian Billiards Title



**S**tar Indian player Pankaj Advani defeated compatriot Brijesh Damani 5-1 in the final to retain his Asian Billiards title in the 100-up format at Qatar Billiards and Snooker Federation (QBSF) Academy. In the women's category, China's Bai Yulu won the title beating Panchaya Channo of Thailand 3-0 in the final.

## Mumbai Indians has won the Women's Premier League 2023



**M**umbai Indians has won the inaugural Women's Premier League 2023. They defeated Delhi Capitals by seven wickets at the Brabourne Stadium in Mumbai. Mumbai Indians needed 132 runs to win and they won the match by scoring 134 runs in 19 overs in three

balls losing 3 wickets. Nate Sciver-Brunt was the highest scorer for Mumbai scoring 60 not out. It is a women's Twenty20 cricket and owned and operated by the Board of Control for Cricket in India (BCCI).

This was the first season played in March 2023, with five teams.  
 Player of the Match - Nat Sciver-Brunt  
 Player of the Series and Purple Cap - Hayley Matthews  
 Orange Cap - Meg Lanning  
 Catch of the Season - Harmanpreet Kaur  
 Emerging Player of the Year award - Yastika Bhatia.



## Sergio Perez wins the Saudi Arabian Grand Prix

**M**exican racing driver Sergio Perez has won the Saudi Arabian Grand Prix 2023 title. In the same Red Bull, his partner Max Verstappen secured the second position in the race. Seven-times world champion Lewis Hamilton finished fifth and Ferrari's Carlos Sainz came in sixth place.



## India bag 4 gold in World Women's Boxing Championship

**I**ndia won four gold in the World Women's Boxing Championship. Lovlina Borgohain defeated Caitlin Parker of Australia in the final of the 75-kilogram category at the Indira Gandhi Sports Complex. This was Lovlina's first gold medal at the World Championships. She became World Champion for the second successive time. She is only the 2nd Indian woman boxer after Mary Kom to win more than one world title.

# BOOKs & Author



## A New book 'COACHING BEYOND: My Days with the Indian Cricket Team' authored by R. Kaushik & R. Sridhar



A book titled 'COACHING BEYOND: My Days with the Indian Cricket Team' authored by R. Kaushik & R.

Sridhar.

The book covers Virat Kohli's journey, Rishabh Pant's development and the team's progression towards the number one Test ranking.

R. Kaushik has been a cricket writer for more than three decades.

Since starting his career with Newstime in Hyderabad, he has worked with Deccan Herald and Wisden India in Bengaluru.

He is the co-author of V.V.S Laxman's autobiography, 281 And Beyond as well as Gundappa Vishwanath's autobiography, Wrist Assured.



## Former bureaucrat KM Chandrasekhar's memoir offers a ringside view of the workings of India's corridors of power

"As Good as My Word" This book by former Cabinet Secretary KM Chandrasekhar offers a critique of institutions and covers a period marked by much tumult

The book is an honest account of Chandrasekhar's career.

Some issues, especially in the later part of his working life, also involved matters that became, and continue to be, subjects of national discussion.

## Dr. Mansukh Mandaviya unveils 'India's Vaccine Growth Story' at World Book Fair 2023

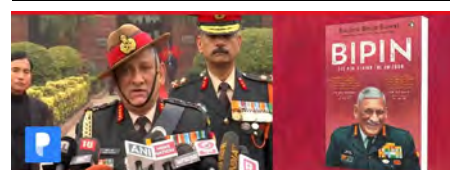


Union Minister for Health and Family Welfare, Dr. Mansukh Mandaviya

released the book 'India's Vaccine Growth Story - From Cowpox to Vaccine Maitri' authored by Shri Sajjan Singh Yadav, Additional Secretary, Govt of India at the World Book fair 2023, at Pragati Maidan.

The book elaborates on India's impressive achievement in developing, producing and distributing COVID-19 vaccines.

Dr. Mandaviya stated that "India administered 2.2 billion doses as a part of the world's largest COVID vaccination drive without any shortages across the nation resulted in saving 3.4 million lives."



## A Tribute to India's First Chief of Defence Staff- "Bipin: The Man Behind the Uniform"

Rachna Biswat Rawat, a well-known journalist and writer from India, has written a book titled "Bipin: The Man Behind the Uniform," which focuses on the life, personality, and principles of General Bipin Rawat, India's first Chief of Defence Staff. Published by Penguin Veer, the book serves as a tribute to Rawat's life and achievements.

# OBITUARY

## Former CJI Aziz Mushabber Ahmadi Passed away



Former Chief Justice of India (CJI) Aziz Mushabber Ahmadi passed away at the

age of 90 in New Delhi, Delhi, India. He was appointed as the **Judge of the Supreme Court of India** in December 1988.

He was appointed as the **26th chief justice of India (1994-1997)**. Justice Ahmadi, the **third Muslim** ever to serve as CJI, demitted office on March 24, 1997, after **Mohammad Hidayatullah (1968-1970) & Mirza Hameedullah Beg (1977-1978)**

## Former diplomat & Padma Bhushan awardee Chandrashekhara Dasgupta Passed away



Former Indian diplomat and the recipient of Padma Bhushan, Chandrashekhara Dasgupta passed away at the age of 82.

He joined the Indian Foreign Service (IFS) in 1962.

He served as **Indian ambassador to the European Union, Belgium, Luxembourg and China.**

He served as **vice-chair** of the preparatory committees of **United Nations Framework Convention on Climate Change (UNFCCC)** and the United Nations Conference on **Environment and Development (UNCED)**, popularly known as the Earth Summit, held in **Rio de Janeiro in 1992.**

He wrote a book titled **War and Diplomacy in Kashmir, 1947-48.**

## Classical Dancer & Padma Awardee Dr. Kanak Rele passed away

A World renowned **Indian classical dancer & Mohiniyattam exponent Kanak Y. Rele** passed away in Mumbai, Maharashtra at the age of 85.

She was an Indian dancer, choreographer, and academic best known as an exponent of Mohiniyattam.

She was the **founder-director**



## France's record World Cup goalscorer, Just Fontaine Passed away

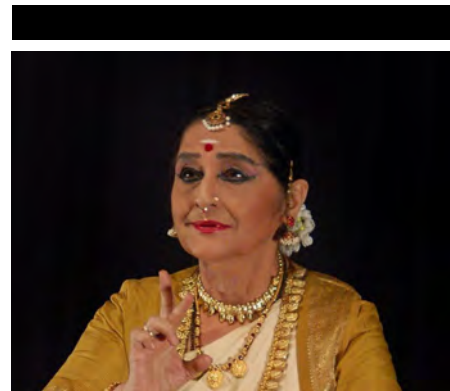
The French football great who scored a record **13 goals** in a **single edition** of the **1958 World Cup**, Just Fontaine, has

passed away at the age of 89.

He was Born in Marrakech, **French Morocco.**

He scored 30 goals in 21 internationals for France between 1953 and 1960,

In 1958, he was instrumental in Les Bleus reaching the semi-finals in Sweden.



**of the Nalanda Dance Research Centre, Mumbai, Maharashtra** in 1966 & the founder-principal of the Nalanda Nritya Kala Mahavidyalaya in 1972 in Mumbai.

## Union Minister Satyabrata Mookherjee Passed Away at 90



**S**atyabrata Mookherjee, a former Lok Sabha member and Additional Solicitor General (ASG) of India, died in Kolkata, West Bengal, on March 3, 2023, at the age of 90.

He was born on May 8th, 1932 in Sylhet, British India's Assam Province (now Bangladesh).

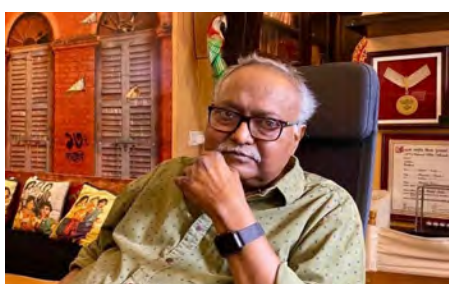
## Nobel prize-winning Japanese writer Kenzaburo Oe Passed away



at the age of 88 announced by his publishing house **Kodansha Limited**. He was involved with pacifist and anti-nuclear campaigns. Pacifist means someone who opposes war or violence as a means of settling disputes. Oe won the **Nobel Prize in Literature in 1994**, becoming the second Japanese author to receive the honour after **Kawabata Yasunari**.

**K**enzaburo Oe, a giant of Japanese writing and winner of the Nobel prize in literature, has passed away

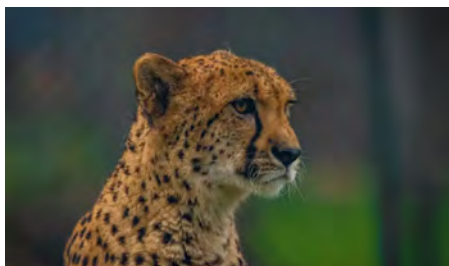
## Renowned writer, director & ad filmmaker Pradeep Sarkar passed away



Mumbai, Maharashtra at the age of 67. Pradeep Sarkar received the Indira Gandhi Award for Best Debut Film of a Director at the **53rd National Film Awards 2006** for his film **Parineeta**.

**R**enowned writer, director and ad filmmaker, Pradeep Sarkar passed away in

## Female Cheetah Sasha brought From Namibia to Madhya Pradesh's Kuno National Park, passed away



**T**he female Cheetah named **Sasha**, who was part of the first batch of cheetahs flown **Namibia into Madhya Pradesh's Kuno National Park (KNP)**, on September 17, 2022, has passed away.



## Veteran journalist & Padma Shri award-ee Abhay Chhajlani passes away

**S**enior journalist and Padma Shri awardee (2009) **Abhay Chhajlani passed away at the age of 88 in Indore, Madhya Pradesh (MP), India**. The government of India (GoI) awarded him the fourth-highest civilian honour of the **Padma Shri, in 2009**, for his contributions to journalism.



## Intel co-founder & Creator of 'Moore's Law' Gordon Moore Passed away

**I**ntel Corporation co-founder, **Gordon Earle Moore** who is hailed as a pioneer for his work in the semiconductor industry and Silicon Valley has **passed away at the age of 94** in Hawaii, United States (US).

# Article Related To Most Important News of The Month



## Oscar Awards 2023

### About Oscar award:

The Academy Awards, more popularly known as the Oscars, are awarded for artistic and technical merit in the film industry. Given annually by the **Academy of Motion Picture Arts and Sciences (AMPAS)**, the awards are an international recognition of excellence in cinematic achievements as assessed by the Academy's voting membership. The various category winners are awarded a copy of a golden statuette, officially called the **"Academy Award of Merit"**, although more commonly referred to by its

nickname, the **"Oscar"**. The statuette depicts a knight rendered in the Art Deco style.

AMPAS first presented it in 1929 at a private dinner hosted by Douglas Fairbanks in the Hollywood Roosevelt Hotel in what would become known as the 1st Academy Awards. The 2023 Oscars Awards has been announced in **LOS ANGELES, California**. The 95th Academy Awards was hosted by Jimmy Kimmel and the Preshow hosts are Ashley Graham, Vanessa Hudgens, Lilly Singh.

Most awards are received

by the picture **"Everything Everywhere All at Once"**



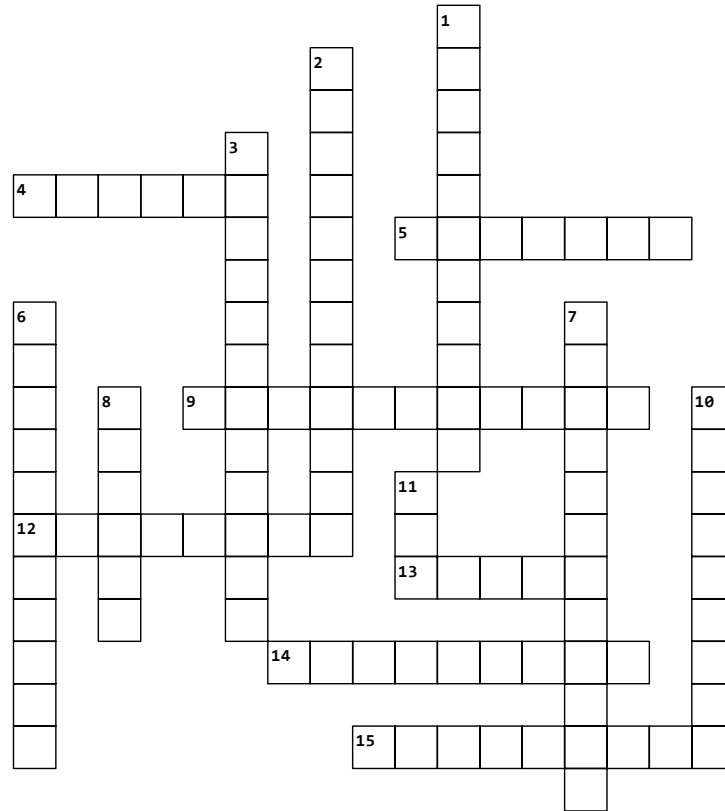
### Oscar Awards 2023 Winners List PDF

| S.No | Award Category          | Winners   |
|------|-------------------------|---|
| 1    | Best Picture            | Everything Everywhere All at Once                     |
| 2    | Best Actor              | Brendan Fraser, "The Whale"                           |
| 3    | Best Actress            | Michelle Yeoh, "Everything Everywhere All at Once"    |
| 4    | Best Original Song      | "Naatu Naatu," "RRR"                                  |
| 5    | Best Animated Feature   | "Guillermo Del Toro's Pinocchio"                      |
| 6    | Best Supporting Actress | Jamie Lee Curtis, "Everything Everywhere All at Once" |
| 7    | Best Supporting Actor   | Ke Huy Quan, "Everything Everywhere All at Once"      |

|    |   |  |
|----|---|--|
| 8  | <b>International Feature Film</b>       | “All Quiet on the Western Front”                                   |
| 9  | <b>Best Director</b>                    | Daniel Kwan, Daniel Scheinert, “Everything Everywhere All at Once” |
| 10 | <b>Live Action Short Film</b>           | The Long Goodbye   |
| 11 | <b>Best Documentary Feature</b>         | “Navalny”  |
| 12 | <b>Best Original Screenplay</b>         | “Everything Everywhere All at Once”                                |
| 13 | <b>Best Adapted Screenplay</b>          | “Women Talking”  |
| 14 | <b>Best Makeup and Hairstyling</b>      | “The Whale”  |
| 15 | <b>Best Visual Effects</b>              | “Avatar: The Way of Water”   |
| 16 | <b>Best Original Score</b>              | “All Quiet on the Western Front”                                   |
| 17 | <b>Best Animated Short Film</b>         | “The Boy, the Mole, the Fox and the Horse”                         |
| 18 | <b>Best Short Documentary</b>           | The Queen of Basketball  |
| 19 | <b>Best Documentary (Short Subject)</b> | “The Elephant Whisperers”  |
| 20 | <b>Best Short Film (Live Action)</b>    | “An Irish Goodbye”   |
| 21 | <b>Best Cinematography</b>              | “All Quiet on the Western Front”                                   |
| 22 | <b>Best Costume Design</b>              | “Black Panther: Wakanda Forever”                                   |
| 23 | <b>Best Film Editing</b>                | “Everything Everywhere All at Once”                                |
| 24 | <b>Best Production Design</b>           | “All Quiet on the Western Front”                                   |
| 25 | <b>Best Sound</b>                       | “Top Gun: Maverick”  |

Current Affairs

**CROSSWORD**  
PUZZLE



**Across**

**4. World's Best Airport of 2023**

- a) Doha
- b) Begumpet
- c) Kempegowda
- d) Changi
- e) Dabolim

**5. Yaoshang festival**

- a) Sikkim
- b) Manipur
- c) Meghalaya
- d) Assam
- e) Punjab

**9. Saraswati Samman Awardee 2022**

- a) Rajasekar
- b) Sivasankari
- c) Gowriprakash
- d) Gowrishankar
- e) Sivaprakash

**12. Unified Payments Interface (UPI) services without the need to link a Bank Account for its users**

- a) Mastercard
- b) Omnicard
- c) Maestro
- d) Rupay
- e) Visa

**13. Host of the first meeting of the Governing Board of BIM-STEC Energy Centre (BEC)**

- a) India
- b) Thailand
- c) China
- d) Bangladesh
- e) Bhutan

**14. Venue of 13th edition of Exercise Bold Kurukshetra**

- a) Telangana
- b) Uttarakhand
- c) Rajasthan
- d) Punjab
- e) Maharashtra

**15. Winner of ICC Women's Twenty20 World Cup 2023**

- a) Westindies
- b) Australia
- c) Southafrica
- d) India
- e) Japan



## Down

1. **India's 1st government 'Mother Milk Bank'**
  - a) Telangana
  - b) Uttarakhand
  - c) Rajasthan
  - d) Punjab
  - e) Maharashtra
2. **First Bharat Gaurav special tourist train will commence its journey**
  - a) Secunderabad
  - b) Chennai
  - c) Varanasi
  - d) Coimbatore
  - e) Shirdi
3. **BBC Indian Sportswoman of the Year (ISWOTY) award**
  - a) Mirabaichanu
  - b) Marykom
  - c) Mithaliraj
  - d) Swati Singh
  - e) Karnam Malleswari
4. **Winner of Saudi Arabian Grand Prix 2023**
  - a) Charles Leclerc
  - b) Sergio Perez
  - c) Lewis Hamilton
  - d) Max Verstappen
  - e) Sebastian
5. **Winner of Santosh Trophy football**
  - a) Karnataka
  - b) Uttarakhand
  - c) Rajasthan
  - d) Punjab
  - e) Maharashtra
6. **Asia's first female locomotive pilot to operate the newly-introduced semi-high-speed Bharata Express train**
  - a) Sulekha Yadav
  - b) Surekha Yadav
  - c) Rajalakshmi
  - d) Rajeshwari Yadav
  - e) Aditi Gupta
7. **Mission 'Har Payment Digital'**
  - a) RBI
  - b) SBI
  - c) UCO
  - d) IOB
  - e) Yes
8. **FRINJEX-23 between Indian Army and \_\_\_\_\_**
  - a) Russia
  - b) China
  - c) Japan
  - d) France
  - e) Mongolia

# Generation of Computer



## First Generation (1940–1956):

### Hardware:



The hardware used in the first generation of computers were:

- ☒ Vacuum Tubes
- ☒ Punch Cards



### Features:



Following are the features of first generation computers

- ☒ It supported **machine language**.
- ☒ It had slow performance
- ☒ It occupied large size due to the use of vacuum tubes.
- ☒ It had a poor storage capacity.
- ☒ It consumed a lot of electricity and generated a lot of heat.

### Memory:



The memory was of **4000 bits**.

### Data Input



The input was only provided through hard-wired programs in the computer, mostly through punched cards and paper tapes.

### Examples



The examples of first generation computers are

- ☒ ENIAC
- ☒ UNIVACTBM 701
- ☒ IBM-701
- ☒ IBM-650

## Second Generation (1956–1963):

Several advancements in the first-gen computers led to the development of second generation computers. Following are various changes in features and components of second generation computers

### Hardware:



The hardware used in the second generation of computers were:

- ☒ Transistors
- ☒ Magnetic Tap



### Memory:



The capacity of the memory was **32,000 bits**.

### Features:



It had features like

- ☒ Batch operating system
- ☒ Faster and smaller in size
- ☒ Reliable and energy efficient than the previous generation
- ☒ Less costly than the previous generation

### Data Input



The input was provided through **punched cards**.

### Examples



The examples of second generation computers are

- ☒ Honeywell 400
- ☒ CDC 1604
- ☒ IBM 7030

## Third Generation (1964-1971):

Following are the various components and features of the third generation computers



### Hardware:



The hardware used in the third generation of computers were

- ⌘ Integrated Circuits made from semi-conductor materials
- ⌘ Large capacity disks and magnetic tapes

### Features:



The features of the third generation computers are

- ⌘ Supports time-sharing OS
- ⌘ Faster, smaller, more reliable and cheaper than the previous generations
- ⌘ Easy to access

### Memory:



The capacity of the memory was **128,000 bits**.

### Data Input



The input was provided through keyboards and monitors.

### Examples



The examples of third generation computers are

- ⌘ IBM 360/370
- ⌘ CDC 6600
- ⌘ PDP 8/11

## Fourth Generation (1972-2010):

Fourth generation computers have the following components and features

### Hardware:



The Hardware used in the fourth generation of computers were

- ⌘ ICs with Very Large Scale Integration (VLSI) technology
- ⌘ Semiconductor memory
- ⌘ Magnetic tapes and Floppy

### Memory:



The capacity of the memory was **100 million bits**.

### Data Input



The input was provided through improved hand held devices, keyboard and mouse.



### Features:



It supports features like

- ⌘ Multiprocessing & distributed OS
- ⌘ Object-oriented high level programs supported
- ⌘ Small & easy to use; hand-held computers have evolved
- ⌘ No external cooling required & affordable
- ⌘ This generation saw the development of networks and the internet
- ⌘ It saw the development of new trends in GUIs and mouse

### Examples



The examples of fourth generation computers are

- ⌘ Apple II
- ⌘ VAX 9000
- ⌘ CRAY 1 (super computers)
- ⌘ CRAY-X-MP(Super Computer)

## Fifth Generation (2010–Present):

These are the modern and advanced computers. Significant changes in the components and operations have made fifth generation computers handy and more reliable than the previous generations.



### Hardware:



The Hardware used in the fifth generation of computers are

- ⌘ Integrated Circuits with VLSI and Nano technology
- ⌘ Large capacity hard disk with RAID support
- ⌘ Powerful servers, Internet, Cluster computing

### Features:



It supports features like

- ⌘ Powerful, cheap, reliable and easy to use.
- ⌘ Portable and faster due to use of parallel processors and Super Large Scale Integrated Circuits.
- ⌘ Rapid software development is possible.

### Memory:



The capacity of the memory is **unlimited**

### Data Input



The input is provided through CDROM, Optical Disk and other touch and voice sensitive input devices.

### Examples



The examples of fifth generation computers are

- ⌘ IBM
- ⌘ Pentium
- ⌘ PARAM

## MCQs:

**1** Which of the following languages may be understood by a computer?

- a) Binary    b) Assembly    c) BASIC  
d) JAVA    e) All the above

**Answer: a**

Explanation:

Machine language is the only language that a computer can understand or use. It can be understood by computers because it simply has binary values of 0s and 1. Simply explained, the computer only comprehends binary code, which consists of 0s and 1s.

**2** Select the Switching Devices that are used in the First generation of computer.

- a) Vacuum tubes  
b) Transistors  
c) Integrated Circuits  
d) Super Large Scale Integrated Chips  
e) Large Scale Integrated Circuit

**Answer: a**

Explanation:

Vacuum tubes, which produced a lot of heat, were bulky, and unreliable, and were employed in the first generation of electronic computers.

**3** Choose the generation in which the microprocessor was first launched.

- a) First    b) Second    c) Third  
d) Fourth    e) Fifth

**Answer: d**

Explanation:

As thousands of integrated circuits were packed onto a single silicon chip, the microprocessor gave rise to the fourth generation of computers.

**4** Which computer was built before the First Generation Computer ?

- a) Mechanical  
b) Electrical  
c) Electro-mechanical  
d) Magnetic  
e) Electronic

**Answer: c**

Explanation:

Before the first generation of computers, electro-mechanical computers were constructed. More quickly than any other device at the time, this computer can calculate.

**5** Which of the following is the period of Second Generation of Computers?

- a) 1940-56      b) 1956-63      c) 1964-71  
d) 1971-1992      e) 1971-present

**Answer: b**

Explanation:

Transistors were used in place of vacuum tubes in the second generation of computers. From 1956 through 1963, transistors were a common component in computers. Because transistors were more compact than vacuum tubes, computers could be made more compactly, more quickly, and more affordably.

**6** Which generation is a high-level language developed?

- a) First      b) Second      c) Third  
d) Fourth      e) Fifth

**Answer: c**

Explanation:

High-Level languages are developed in the third generation. The third Generation languages, or 3GL are C, C++, Java, JavaScript, and Visual Basic.

**7** Database Management System is an application of \_\_\_\_\_ generation of Computers.

- a) First      b) Second      c) Third  
d) Fourth      e) Fifth

**Answer: c**

Explanation:

Database Management System is an application of the Third generation of Computers.

**8** IBM 7090 was developed in \_\_\_\_\_ generation of computer.

- a) First      b) Second      c) Third  
d) Fourth      e) Fifth

**Answer: b**

Explanation:

The newer IBM 7090 Second-generation mainframe computer is an improvement over the earlier IBM 709 vacuum tube mainframe. The completely transistorized IBM 7090 was created in 1960.

**9** Napier's Bones performs \_\_\_\_\_.

- a) Addition and subtraction  
b) Only addition  
c) Only subtraction  
d) Age calculation  
e) Multiplication and division

**Answer: e**

Explanation:

The Napier bones, a calculator used for calculations, speed up the process of multiplying numbers.

**10** Which of the following hardware were used in the second generation of computers?

- a) Transistors  
b) Vacuum Tubes  
c) Magnetic Tapes  
d) Both (a) and (b)  
e) Both (a) and (c)

**Answer: e**

Explanation:

The hardware used in the second generation of computers was:

- Transistors
- Magnetic Tapes

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## IBPS RRB PO Prelims 2023 Practice Set

### Reasoning Ability

**Directions (1-5):** Study the following information carefully and answer the given questions.

Eight persons – P, Q, R, S, T, U, V and W are sitting around a circular table such that four of them are facing inside while four are facing outside.

Q sits second to the left of R where both of them are facing different directions. Two persons sit between Q and W, who doesn't sit adjacent to R. W sits opposite to V, who sits second to the right of U. U, who faces outside the table and sits immediate right of S. Two persons sit between S and T, who faces the same direction as S. T doesn't sit adjacent to Q.

**1) Who among the following person sits second to the right of P?**

- a) The one who sits second to the left of T
- b) S
- c) The one who sits third to the right of U
- d) W
- e) None of these

**2) Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?**

- a) T
- b) Q
- c) S
- d) R
- e) U

**3) Who among the following person sits immediate right of Q?**

- a) P
- b) R
- c) W
- d) U
- e) None of these

**4) If U is related to T and R is related to S in a certain way, then who among the following is related to P?**

- a) V
- b) Q
- c) U
- d) W
- e) None of these

**5) How many persons sit between W and U, when counted from the right of U?**

- a) Five
- b) Four
- c) One
- d) Two
- e) None

**Directions (6-8): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.**

**6. Statements:**

All Beds are Wooden.  
 Some Woodens are Tables.  
 Only a few Tables are Iron.  
 No Chair is a Bed.

**Conclusions:**

- I. Some Beds can be Iron.
- II. No Table is a Chair.
- a) Only conclusion I follows
- b) Only conclusion II follows
- c) Both conclusions I and II follow
- d) Either conclusion I or II follows
- e) Neither conclusion I nor II follows

**7. Statements:**

No Fresh is a Stale.  
 Some Greens are Stale.

Only a few Fresh are Grapes.  
 All Greens are Vegan.

**Conclusions:**

- I. Some Vegans are not Stale.
- II. Some Grapes are not Green.
- a) Only conclusion I follows
- b) Only conclusion II follows
- c) Both conclusions I and II follow
- d) Either conclusion I or II follows
- e) Neither conclusion I nor II follows

**8. Statements:**

Only a few Pink is Public.  
 All Public are Village.  
 Only pink is Metro.  
 Some Villages are City.

**Conclusions:**

- I. All Metro can never be City.
- II. Some Villages are Pink.
- a) Only conclusion I follows
- b) Only conclusion II follows
- c) Both conclusions I and II follow
- d) Either conclusion I or II follows
- e) Neither conclusion I nor II follows

**Direction (9-13): Study the following information carefully and answer the given questions.**

Eight persons - H, I, J, K, L, M, N and O are sitting around a square table in such a way that four of them sit in the corners of the table while the

other four of them sit in the middle of the sides. All of them are facing away from the centre.

I sits in the corner of the table and sits three places away from J. H sits second to the left of J. Neither I nor J sits adjacent to K. The number of persons sitting between H and I is the same as the number of persons sitting between L and M, who sits second to the right of K. L doesn't sit opposite to H. N sits immediate right of O.

**9. Who among the following person sits third to the left of N?**

- a) The one who sits immediate left of H
- b) J
- c) The one who sits opposite to I
- d) L
- e) O

**10. How many persons sit between O and L when counted from the left of O?**

- a) One
- b) Two
- c) Three
- d) Four
- e) No one

**11. Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Find the one who does not belong to that group**

- a) KO
- b) HM
- c) LJ
- d) IM
- e) HN

**12. As many persons sit between I and O as between N and \_\_\_\_\_ when counted from the left of both I and N.**

- a) H
- b) K
- c) J
- d) L
- e) None of these

**13. Which of the following statement(s) is/are true with respect to the final arrangement?**

- I. Only three persons sit between I and M
  - II. J sits immediate left of the one who sits opposite to L
  - III. H sits second to the right of L
- a) Only I and II
  - b) Only I
  - c) Only III



- d) Only I and III
- e) All I, II and III

**14. How many such pairs of letters are there in the word "INVESTMENTS" each of which has as many letters between them as there are in the English alphabetical series (both forward and backward directions)?**

- a) None
- b) One
- c) Two
- d) Three
- e) More than three

**Directions (15–18): Study the following information carefully and answer the given questions.**

In a certain code language, "Mandatory Proper shut down" is coded as "lk fk iz ks"

"Use proper procedure briefly" is coded as "fk mn as mp"

"Race Down the ground" is coded as "lk ad iw fa"

"Use common procedure" is coded as "as mp zs"

**15. What is the code for the phrase "Proper procedure" in the given code language?**

- a) fk ad

- b) ad as
- c) fk as
- d) fk mp
- e) Either c or d

**16. What is the code for the word "Common" in the given code language?**

- a) mp
- b) as
- c) lk
- d) zs
- e) Cannot be determined

**17. What may be the code for the phrase "Mandatory match Ground" in the given code language?**

- a) fk ks fa
- b) lk ad iz
- c) ad lk fa
- d) iz lp ad
- e) fa mn ks

**18. What is the code for the phrase "Briefly procedure" in the given code language, if the code for the phrase "Make use" is "as jk"?**

- a) as zs
- b) jk fa
- c) mn mp
- d) as mn
- e) Cannot be determined

**Direction (19–20):** In the given question, the relationship between different elements is shown in the statements followed by some conclusions. Find the conclusion which is definitely true.

**19. Statements:**

$A \geq T > G$ ;  $S < J < E \leq G$ ;  $S > Q = I$

**Conclusions:**

I.  $A > I$

II.  $Q < E$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Either conclusion I or II is true
- d) Neither conclusion I nor II is true
- e) Both conclusions I and II are true

**20. Statements:**

$Y \geq F > J > U$ ;  $B < R \leq F < K$ ;  $B \geq W = D$

**Conclusions:**

I.  $D < R$

II.  $K \leq Y$

- a) Only conclusion I is true
- b) Only conclusion II is true
- c) Either conclusion I or II is true
- d) Neither conclusion I nor II is true
- e) Both conclusions I and II are true

**21. If one is added to the even digits and two is subtracted from the odd digits of the number "548372689",**

**then how many digits are repeated more than once in the newly formed number?**

- a) One
- b) Two
- c) Three
- d) Four
- e) None

**Direction (22–24):** Study the following information carefully and answer the given questions.

A leaves his house and walks for 10m towards the east, then he walks for 8m to his right to reach bookstall. Again he turns to his left and walks for 5m, finally he walks for 6m to his left to reach his school.

On the other side B leaves his house and walks for 10m towards the east, then he walks for 12m to his right to reach ATM. Again he turns to his right and walks for 7m, finally he walks for 2m to his left to reach his school. Both A and B reach the same school.

**22. What is the shortest distance between A's house and B's house (Approximately)?**

- a) 10m
- b) 15m
- c) 17m

- d) 21m
- e) 22m

**23. What is the direction of the ATM with respect to A's first left turn?**

- a) North-West
- b) South-west
- c) East
- d) South-east
- e) North-East

**24. Four of the following five are alike in a certain way based on their directions in the given arrangement and thus form a group. Which one of the following does not belong to the group?**

- a) A's House- B's House
- b) Bookstall - School
- c) Bookstall- ATM
- d) B's House - School
- e) School - ATM

**Direction (25-27): Study the following information carefully and answer the given questions.**

A Certain number of persons are sitting in a linear row facing north. Only two persons sit between P and M, who sits second from one of the ends of the row. T sits second to the right of P. The number of persons

sitting between M and T is one less than the number of persons sitting between P and O. Q sits immediate left of O. As many persons sit between T and Q as between O and A, who sits fifth from one of the ends. K sits third to the right of A and doesn't sit adjacent to Q.

**25. How many persons are sitting in the linear row?**

- a) 24
- b) 20
- c) 15
- d) 18
- e) 16

**26. Who among the following person sits third to the left of Q?**

- a) P
- b) A
- c) M
- d) K
- e) T

**27. How many persons sit between A and P?**

- a) Five
- b) Two
- c) Seven
- d) Eight
- e) One

**Directions (28-30): Study the following information carefully and answer the given questions.**

Six Buildings has different number of floors. W has more floors than X but less floors than Y. Z has more floors than V. U has less floors than X but more floors than V. Z doesn't have less floors than W. The number of floors in Y is not the highest. The building which has the second lowest number of floors has 22 floors.

**28. Which of the following building has the second highest number of floors?**

- a) Z
- b) W
- c) Y
- d) X
- e) Cannot be determined

**29. What is the total number of floors in buildings U and Y, if Y has 29 floors?**

- a) 61
- b) 41
- c) 51
- d) 31
- e) None of these

**30. What may be the total number of floors in building W?**

- a) 22
- b) 27
- c) 19
- d) 21
- e) 20

**Directions (31-35): Study the following information carefully and answer the given questions.**

Seven persons - M, N, O, P, Q, R and S live on different floors of a seven-storey building where the lowermost floor is numbered 1, the floor immediately above it is numbered 2 and so on till the topmost floor is numbered 7. Each person is from different country viz. China, India, Japan, Korea, Russia, Spain and USA. O lives on an even-numbered floor and three floors below the one who is from Korea. P lives immediately below the one who is from Korea and two floors above the one who is from Japan. As many floors above P as below the one who is from Russia. R lives three floors above the one who is from Russia, who lives immediately above M. The one who is from Spain lives immediately below the one who is from India and immediately above N. S is neither from Spain nor from USA.

**31. Who among the following person is from Spain?**

- a) The one who lives immediately below P
- b) R
- c) The one who lives on 6<sup>th</sup> floor
- d) S
- e) None of these

**32. On which of the following floor does S live?**

- a) Floor 6
- b) Floor 3
- c) Floor 4
- d) Floor 1
- e) None of these

**33. How many floors are there between N and the one who is from Japan?**

- a) One
- b) Two
- c) Three
- d) More than three
- e) None

**34. If all the persons are living in alphabetical order from bottom to top, then how many persons remain unchanged in their position?**

- a) One
- b) Two

- c) Three
- d) More than three
- e) None

**35. M is from which of the following country?**

- a) China
- b) India
- c) Korea
- d) USA
- e) None of these

**Directions (36–40): Study the following information carefully and answer the given questions.**

Eight persons – I, J, K, L, M, N, O and P are working in a school with different designations such as Director, principal, vice-principal, accountant, Counselor, Teacher, Librarian and school people leader (SPL). The designations are given in decreasing order such that Director is the seniormost designation and school people leader (SPL) is the juniormost designation.

Only three persons are designated between O and M, who is senior to accountant. Only four persons are junior to K. P is junior to M and immediately senior to L. Neither L nor J is a librarian and vice-principal.

More than two persons are designated between I and N, who is senior to J.

**36. How many persons are senior to J?**

- a) No one
- b) One
- c) Two
- d) More than three
- e) Three

**37. How many persons are designated between K and the one who is a school people leader?**

- a) One
- b) As many persons senior to M
- c) None
- d) More than three
- e) As many persons designated between J and L

**38. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?**

- a) ML
- b) NK
- c) OK
- d) IL
- e) JP

**39. Which of the following statement(s) is/are true with respect to the final arrangement?**

- a) Only two persons are junior to P
- b) M is junior to N and senior to L
- c) Three persons are designated between I and P
- d) K is immediately senior to M.
- e) Both b and d

**40. Who among the following is working as a vice principal?**

- a) P
- b) J
- c) O
- d) K
- e) M

### Quantitative Aptitude

**Directions (41-45): Find out the wrong number in the following number series.**

**41) 40, 42, 50, 77, 141, 266**

- A.266
- B.141
- C.50
- D.42
- E.40

**42) 72, 85, 59, 98, 46, 108**

- A.108
- B.46

- C.98
- D.85
- E.72

**43) 74, 92, 114, 142, 184, 224**

- A.184
- B.142
- C.114
- D.92
- E.74

**44) 7, 11, 19, 35, 69, 131, 259**

- A.69
- B.19
- C. 259
- D.11
- E.None of these

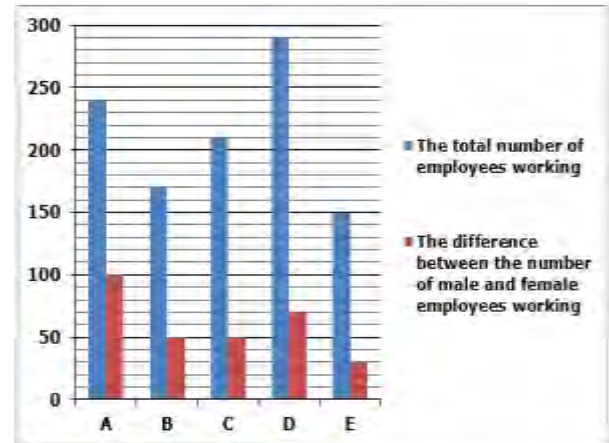
**45) 1, 18, 44, 81, 131, 198**

- A.198
- B.81
- C.18
- D.131
- E.44

**Directions (46-50): Study the following information carefully and answer the questions.**

The given bar graph shows the total number of employees working in five different companies i.e. A, B, C, D and E in 2021 and also given the

difference between the number of male and female employees working in five different companies in 2021.



**Note:** In each company, the number of male employees is more than the number of female employees.

**46) If the ratio of the number of female employees working in company C to company F is 4:5 and the number of male employees working in company F is 50% of the total number of employees working in company A, then find the total number of employees working in company F?**

- A.360
- B.220
- C.400
- D.310
- E.None of these

**47) The total number of employees working in companies B and E together is how much more/less than the number of male employees working in company A?**

- A.150 more
- B.100 less
- C.180 more
- D.110 less
- E.None of these

**48) Find the ratio of the number of male employees working in company D to the number of female employees working in company E?**

- A.4:5
- B.8:9
- C.7:6
- D.3:1
- E.None of these

**49) In company C, the total number of employees working in 2022 is 120 more than that of in the previous year and the ratio of the number of male employees working in 2021 to 2022 is 2:3. Find the number of female employees working in company C in 2022?**

- A.200
- B.195
- C.135

- D.230
- E.None of these

**50) The number of male employees working in company E is what percentage more than the number of female employees working in company B?**

- A.90%
- B.50%
- C.20%
- D.70%
- E.None of these

**Directions (51–55): The following question contains two equations as I and II. You have to solve both equations and determine the relationship between them and give the answer as,**

**51)**

**I)  $x^2 + 22x + 120 = 0$**

**II)  $y^2 + 18y + 80 = 0$**

- A. $x > y$
- B. $x \geq y$
- C. $x = y$  or relationship can't be determined.
- D. $x < y$
- E. $x \leq y$

**52)**

**I)  $x^2 + 4x - 60 = 0$**



II)  $y^2 - 19y + 84 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

**53)**

I)  $5x^2 - 19x + 18 = 0$

II)  $2y^2 - 15y + 28 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

**54)**

I)  $x^2 - 19x + 88 = 0$

II)  $y^2 - 14y + 48 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

**55)**

I)  $x^2 - 18x + 72 = 0$

II)  $y^2 - 20y + 84 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  or relationship can't be determined.

D.  $x < y$

E.  $x \leq y$

**56) Cost Price of article A is Rs.1000 and Cost Price of article B is Rs.900. If A is sold at P% profit and B is sold at (P + 10)% profit and the difference between the selling price of article A and article B is Rs.25. Find the value of P.**

A.10

B.15

C.25

D.30

E.None of these

**57) A alone completes the work in x days and B alone completes the work in (x + 10) days. If A and B together can complete the work in 12 days and C alone completes the work in (x + 4) days, in how many days B and C together can complete the work?**

A.  $11\frac{1}{3}$  days

B.  $15\frac{1}{3}$  days

C.  $14\frac{1}{3}$  days

D.  $12\frac{1}{3}$  days

E.  $13\frac{1}{3}$  days

**58)  $\frac{3}{4}$ th the age of P after 4 years is equal to 50% of the age of Q after 4 years and the ratio of the present age of Q to R is 4:3 and the sum of the age of P before 2 years and the age of R before 3 years is 22 years. Find the present age of Q.**

- A.20 years
- B.12 years
- C.15 years
- D.18 years
- E.None of these

**59) The base of the trapezium is x cm and  $\frac{5x}{2}$  cm respectively and the height of the trapezium is 15 cm. If the area of the trapezium is 210  $\text{cm}^2$ , then find the sum of the base of the trapezium.**

- A.28 cm
- B.44 cm
- C.32 cm
- D.48 cm
- E.None of these

**60) Ratio of the sum of the downstream and upstream speed of the boat to the difference between the downstream and upstream speed of the boat is 3:1. Total time taken by the boat to**

**cover 140 km in both upstream and downstream is 15 hours. Find the downstream speed of the boat.**

- A.30 km/hr
- B.35 km/hr
- C.28 km/hr
- D.21 km/hr
- E.None of these

**Directions (61-65): Read the following information carefully and answer the questions.**

The total number of books (comic and fantasy) in four different libraries i.e. A, B, C and D and the number of comic books in library A is 150. The number of comic books in library A is 50% more than that of fantasy books in the same library and the ratio of the number of comic books to fantasy books in library D is 7:5. The total number of comic and fantasy books in library D is 240% of the total number of comic and fantasy books in library A. The number of fantasy books in library C is  $\frac{4}{5}$ th of the number of comic books in library D and the average number of comic and fantasy books in library C is 220. The number of comic and fantasy books in library B is 50% and 100%

more than the number of comic books in library C.

**61) Find the difference between the total number of comic and fantasy books in library B and the number of comic books in library D?**

- A.210
- B.350
- C.190
- D.240
- E.None of these

**62) The number of comic books in library B is what percentage more/less than the number of comic books in library A?**

- A.10% more
- B.25% less
- C.60% more
- D.45% less
- E.None of these

**63) Find the average number of comic books in library C and the number of fantasy books in library B?**

- A.300
- B.240
- C.180
- D.350
- E.None of these

**64) If the total number of comic and fantasy books in library E is 100 more than that of library C and the ratio of the number of fantasy books in library C to library E is 4:3, then find the number of comic books in library E?**

- A.330
- B.240
- C.510
- D.270
- E.None of these

**65) Find the ratio of the number of fantasy books in library D to the total number of comic and fantasy books in library A?**

- A.3:5
- B.4:9
- C.7:5
- D.1:1
- E.None of these

**Directions (66–70): What approximate value should come in the place of (?) in the following questions?**

- 66)  $(21.18 * 8.99) + \sqrt{1295} * 14.14 = ? + 173.09$**
- A.570
  - B.540
  - C.550

D.520

E.560

67)  $196.13 \div 13.69 + 81.13 \div 2.99^3 = ? - 45.35$

A.62

B.68

C.70

D.45

E.54

68)  $181.99 \div 13.01 \div 6.99 \times 49 = 7^{?} \times 2$

A.5

B.4

C.2

D.3

E.None of these

69)  $269.98/3.02 - 11.04 \times 11.97 + \sqrt[3]{729.01} = ?$

A.-23

B.-43

C.-34

D.-33

E.None of these

70)  $45.01\%$  of  $599.89 \div [(24.89 + 15.32)\%$  of  $500.21] = ? \div 40.11$

A.58

B.59

C.54

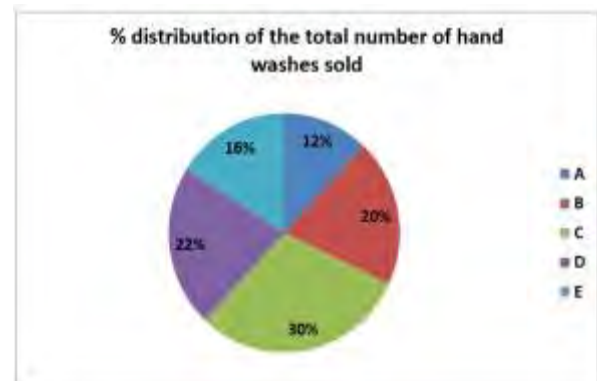
D.34

E.None of these

**Directions (71-75): Study the following information carefully and answer the given questions.**

The given pie chart shows the percentage distribution of the total number of hand washes (Dettol, Dove and Himalaya) sold by five different shops i.e. A, B, C, D and E.

The total number of hand washes sold by all five different shops = 4500



71) If the total number of hand washes sold by shop F is 70% of the total number of hand washes sold by shop B, then find the sum of the total number of hand washes sold by shops A and F together.

A.1320

B.1450

C.1170

D.1080

E.None of these

**72) If the ratio of the number of Dettol, Dove and Himalaya hand washes sold by shop C is 2:4:3 respectively and the number of Dove hand washes unsold in shop C is 120, then find the total number of Dove hand washes manufactured by shop C?**

- A. 720
- B. 840
- C. 900
- D. 560
- E. None of these

**73) Find the difference between the total number of hand washes sold by shops A and E together and the total number of hand washes sold by shop B?**

- A. 440
- B. 270
- C. 510
- D. 360
- E. None of these

**74) If the number of Dettol and Dove hand washes sold by shop A is 30 more and 30 less than the number of Himalaya hand washes sold in that shop, then find the ratio of the number of Dettol to Dove hand washes sold by shop A?**

- A. 8:9
- B. 2:1
- C. 7:5
- D. 4:3
- E. None of these

**75) The total number of hand washes sold by shop D is what percentage more than the total number of hand washes sold by shop E?**

- A. 20%
- B. 37.5%
- C. 45%
- D. 12.5%
- E. None of these

**76) A and B started the business with the investment of Rs.  $x$  and Rs.  $(x + 1000)$  respectively and after one year, C joined with the investment of Rs.  $(x - 2000)$ . At the end of two years, the total profit is Rs. 10000 and the profit share of B is Rs. 4500, then find the value of  $x$ ?**

- A. 6000
- B. 7000
- C. 8000
- D. 10000
- E. 12000

**77) A bag contains 5 red balls,  $x$  black balls,  $(x + 3)$  white balls and 3 green balls. If one ball is drawn at random from the bag, then the probability of that ball being white is  $\frac{1}{3}$ . Find the value of  $x$ ?**

- A.3**
- B.2**
- C.5**
- D.1**
- E.4**

**78) In a class, the average weight of 28 students is  $x$  kg. If four new students joined the class whose average weight is  $(x + 8)$  kg, then the average weight of the class becomes 51 kg. Find the total weight of the four new students?**

- A.256 kg**
- B.240 kg**
- C.232 kg**
- D.200 kg**
- E.None of these**

**79) Kavın invested Rs.  $X$  for 2 years in scheme A, which offers simple interest at 12 % per annum. He also**

**invested Rs.  $(X + 20000)$  in scheme B, which offers compound interest at 10 % per annum for 2 years. If the interest received from scheme A is Rs. 1500 less than the interest received from scheme B. Find the value of  $X$ ?**

- A.80000**
- B.90000**
- C.70000**
- D.100000**
- E.None of these**

**80) A vessel contains  $(x+100)$  liters of milk and  $x$  liters of water. If 100 liters of milk and  $x$  liters of water is added into the vessel, then the quantity of milk and water becomes equal. Find the quantity of water left in the vessel?**

- A.480 liters**
- B.300 liters**
- C.250 liters**
- D.400 liters**
- E.None of these**

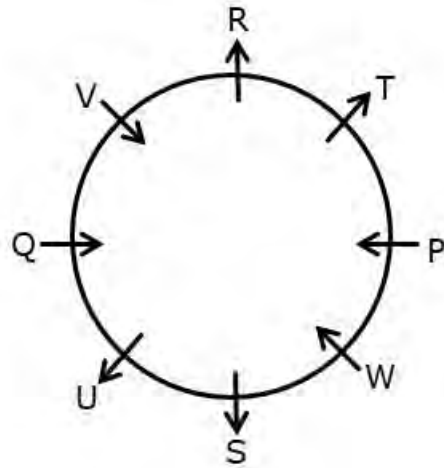
**ANSWER WITH EXPLANATION**

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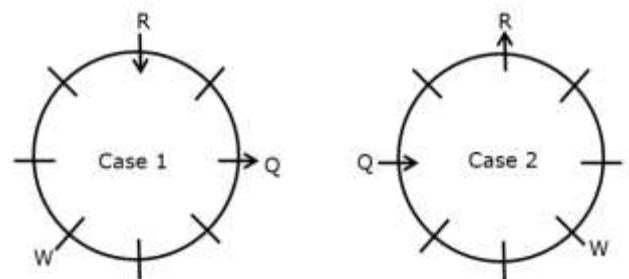
- 1. Answer: C
  - 2. Answer: B (All of them are facing outside the table except option b)
  - 3. Answer: D
  - 4. Answer: B
  - 5. Answer: A
- Final arrangement:**



We have,

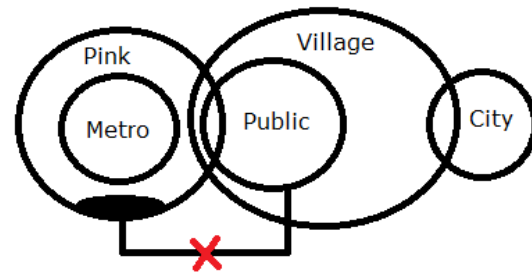
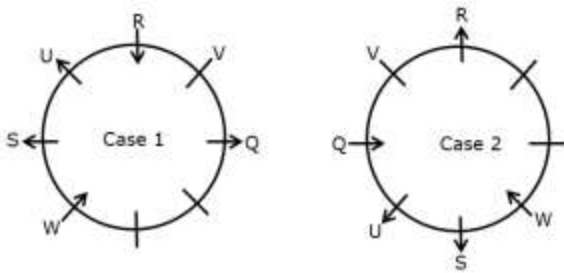
- Q sits second to the left of R where both of them are facing different directions.
- Two persons sit between Q and W, who doesn't sit adjacent to R.

From the above conditions, there are two possibilities.



Again we have,

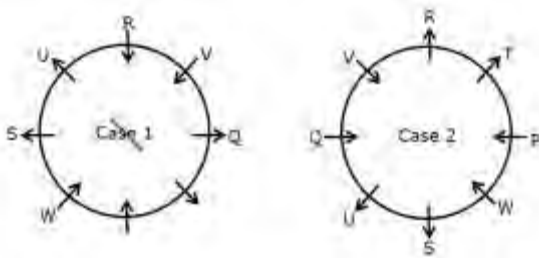
- W sits opposite to V who sits second to the right of U.
- U, who faces outside the table and sits immediate right of S.



Again we have,

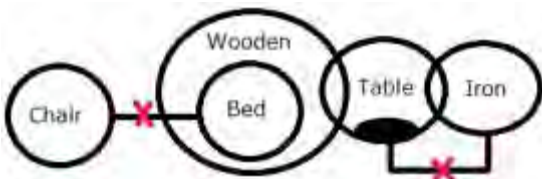
- Two persons sit between S and T, who faces the same direction as S.
- T doesn't sit adjacent to Q.

From the above conditions, case 1 gets eliminated. Hence, case 2 shows the final arrangement.

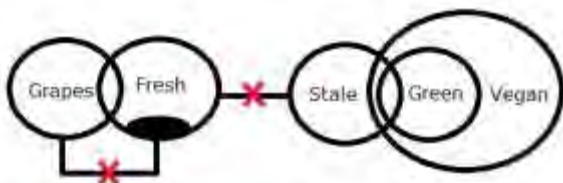


**Directions (6-8):**

**6. Answer: A**



**7. Answer: E**



**8. Answer: C**

**Directions (9-13):**

**9. Answer: C**

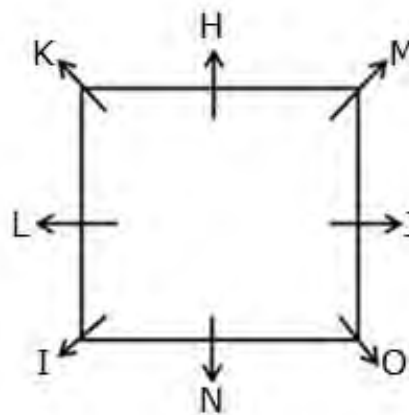
**10. Answer: D**

**11. Answer: b (First person sits opposite to the second person except in option b)**

**12. Answer: C**

**13. Answer: D**

**Final arrangement**

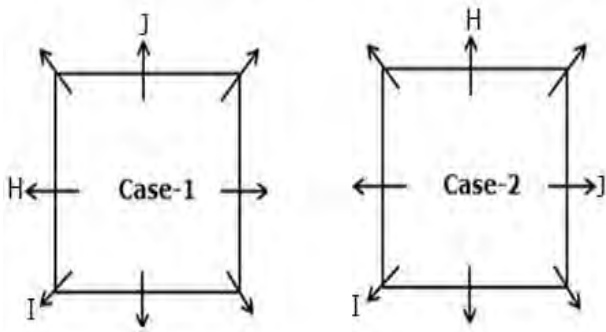


We have,

- I sits in the corner of the table and sits three places away from J.
- H sits second to the left of J.

From the above condition, there are two possibilities

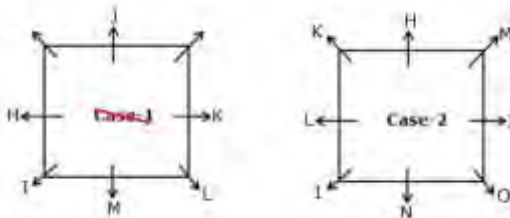




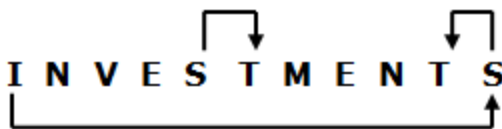
Again we have,

- Neither I nor J sits adjacent to K.
- The number of persons sitting between H and I is the same as the number of persons sitting between L and M, who sits second to the right of K.
- L doesn't sit opposite to H.
- N sits immediate right of O.

So Case1 gets eliminated, hence Case-2 shows the final arrangement



14. Answer: D



Directions (15-18):

15. Answer: E

16. Answer: D

17. Answer: D

18. Answer: C

| Word            | Code     |
|-----------------|----------|
| Mandatory/Shut  | lz/ks    |
| Proper          | fk       |
| Down            | lk       |
| Use/Procedure   | as/mp    |
| Briefly         | mn       |
| Race/The/Ground | lw/ad/fa |
| Common          | zs       |

Direction (19-20):

19. Answer: E

$A \geq T > G$ ;  $S < J < E \leq G$ ;  $S > Q = I$

Conclusions:

I.  $A > I$  ( $A \geq T > G \geq E > J > S > Q = I$ )  $\rightarrow$  True

II.  $Q < E$  ( $E > J > S > Q$ )  $\rightarrow$  True

Hence, option e is correct

20. Answer: A

$Y \geq F > J > U$ ;  $B < R \leq F < K$ ;  $B \geq W = D$

Conclusions:

I.  $D < R$  ( $R > B \geq W = D$ )  $\rightarrow$  True

II.  $K \leq Y$  ( $Y \geq F < K$ )  $\rightarrow$  False

Hence, option a is correct

21. Answer: D

5 4 8 3 7 2 6 8 9

3 5 9 1 5 3 7 9 7

3, 5, 9 and 7

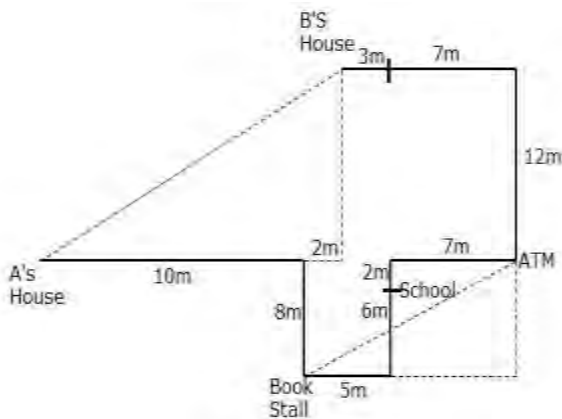
Hence, option d is correct

**Directions (22-24):**

**22. Answer: C**

**23. Answer: E**

**24. Answer: D**

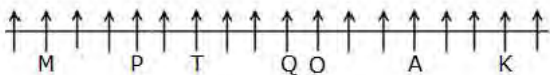


**25. Answer: D**

**26. Answer: E**

**27. Answer: D**

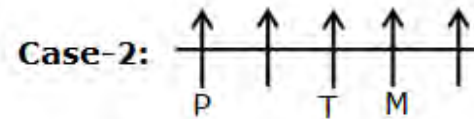
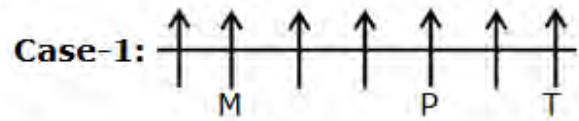
**Final arrangement**



We have,

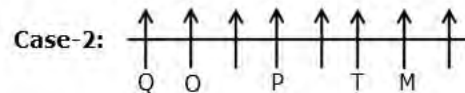
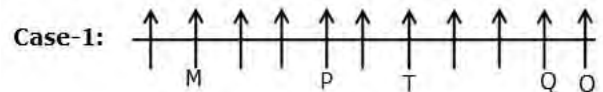
- Only two persons sit between P and M, who sits second from one of the ends of the row.
- T sits second to the right of P.

From the above condition, there are two possibilities



Again we have,

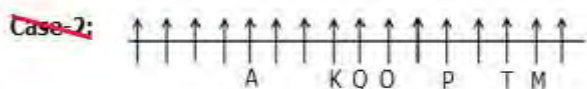
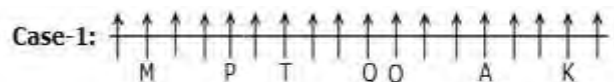
- The number of persons sitting between M and T is one less than the number of persons sitting between P and O.
- Q sits immediate left of O.



Again we have,

- As many persons sit between T and Q as between O and A, who sits fifth from one of the ends.
- K sits third to the right of A and doesn't sit adjacent to Q.

So Case2 gets eliminated, hence Case-1 shows the final arrangement



**Directions (28–30):**

**28. Answer: C**

**29. Answer: C**

**30. Answer: B**

| Rank | Building | Floors |
|------|----------|--------|
| 1    | Z        |        |
| 2    | Y        | 29     |
| 3    | W        |        |
| 4    | X        |        |
| 5    | U        | 22     |
| 6    | V        |        |

**Directions (31–35):**

**31. Answer: C**

**32. Answer: D**

**33. Answer: B**

**34. Answer: A**

**35. Answer: D**

| Floor | Person | Country |
|-------|--------|---------|
| 7     | R      | India   |
| 6     | Q      | Spain   |
| 5     | N      | Korea   |
| 4     | P      | Russia  |
| 3     | M      | USA     |
| 2     | O      | Japan   |
| 1     | S      | China   |

1. O lives on an even numbered floor and three floors below the one who is from Korea. P lives immediately below the one who is from Korea and

two floors above the one who is from Japan.

From the above condition, there are two possibilities.

|       | Case 1 |         | Case 2 |         |
|-------|--------|---------|--------|---------|
| Floor | Person | Country | Person | Country |
| 7     |        | Korea   |        |         |
| 6     | P      |         |        |         |
| 5     |        |         |        | Korea   |
| 4     | O      | Japan   | P      |         |
| 3     |        |         |        |         |
| 2     |        |         | O      | Japan   |
| 1     |        |         |        |         |

2. As many floors above P as below the one who is from Russia. R lives three floors above the one who is from Russia, who lives immediately above M.

|       | Case 1 |         | Case 2 |         |
|-------|--------|---------|--------|---------|
| Floor | Person | Country | Person | Country |
| 7     |        | Korea   | R      |         |
| 6     | P      |         |        |         |
| 5     | R      |         |        | Korea   |
| 4     | O      | Japan   | P      | Russia  |
| 3     |        |         | M      |         |
| 2     |        | Russia  | O      | Japan   |
| 1     | M      |         |        |         |

3. The one who is from Spain lives immediately below the one who is from India and immediately above N. S is neither from Spain nor from USA. Hence, case 1 gets eliminated. So Case2 shows the final arrangement

|       | <del>Case 1</del> |         | Case 2 |         |
|-------|-------------------|---------|--------|---------|
| Floor | Person            | Country | Person | Country |
| 7     |                   | Korea   | R      | India   |
| 6     | P                 | India   | Q      | Spain   |
| 5     | R                 | Spain   | N      | Korea   |
| 4     | O                 | Japan   | P      | Russia  |
| 3     |                   |         | M      | USA     |
| 2     |                   | Russia  | O      | Japan   |
| 1     | M                 |         | S      | China   |

### Directions (36-40)

36. Answer: B

37. Answer: E

38. Answer: D (In the given options, Only two persons are designated between both persons, except for option d)

39. Answer: B

40. Answer: E

### Final arrangement:

| Designations   | Person |
|----------------|--------|
| Director       | N      |
| Principal      | J      |
| Vice-principal | M      |
| Accountant     | K      |
| Counselor      | P      |
| Teacher        | L      |
| Librarian      | O      |
| SPL            | I      |

We have,

- Only three persons are designated between O and M, who is senior to accountant.
- Only four persons are junior to K.

From the above conditions, we have three possibilities:

| Designations   | Case -1 | Case -2 | Case -3 |
|----------------|---------|---------|---------|
| Director       |         |         | M       |
| Principal      |         | M       |         |
| Vice-principal | M       |         |         |
| Accountant     | K       | K       | K       |
| Counselor      |         |         | O       |
| Teacher        |         | O       |         |
| Librarian      | O       |         |         |
| SPL            |         |         |         |

Again we have,

- P is junior to M and immediately senior to L.
- More than two persons are designated between I and N, who is senior to J.
- Neither L nor J is a librarian and vice-principal. (While applying this condition, case 2 and 3 gets eliminated)

| Designations   | Case-1 | Case-2 | Case-3 |
|----------------|--------|--------|--------|
| Director       | N      | N      | M      |
| Principal      | J      | M      | N      |
| Vice-principal | M      | J      | J      |
| Accountant     | K      | K      | K      |
| Counselor      | P      | I      | O      |
| Teacher        | L      | O      | I      |
| Librarian      | O      | P      | P      |
| SPL            | I      | L      | L      |

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**41. Answer: E**

$$41 + 1^3 = 42$$

$$42 + 2^3 = 50$$

$$50 + 3^3 = 77$$

$$77 + 4^3 = 141$$

$$141 + 5^3 = 266$$

**42. Answer: A**

$$72 + 13 * 1 = 85$$

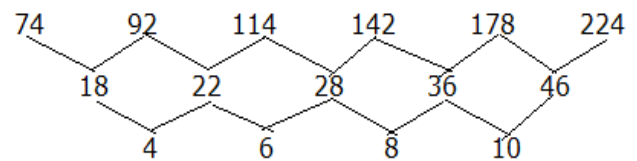
$$85 - 13 * 2 = 59$$

$$59 + 13 * 3 = 98$$

$$98 - 13 * 4 = 46$$

$$46 + 13 * 5 = \mathbf{111}$$

**43. Answer: A**



**44. Answer: A**

$$(7 * 2) - 3 = 11$$

$$(11 * 2) - 3 = 19$$

$$(19 * 2) - 3 = 35$$

$$(35 * 2) - 3 = \mathbf{67}$$

$$(67 * 2) - 3 = 131$$

$$(131 * 2) - 3 = 259$$

**45. Answer: A**

$$1 + 4^2 + 1 = 18$$

$$18 + 5^2 + 1 = 44$$

$$44 + 6^2 + 1 = 81$$

$$81 + 7^2 + 1 = 131$$

$$131 + 8^2 + 1 = \mathbf{196}$$

**Directions (46-50):**

**Company A:**

The number of male employees =  $(240 + 100)/2 = 340/2 = 170$

The number of female employees =  
 $240 - 170 = 70$

**Company B:**

The number of male employees =  
 $(170 + 50)/2 = 220/2 = 110$

The number of female employees =  
 $170 - 110 = 60$

**Company C:**

The number of male employees =  
 $(210 + 50)/2 = 260/2 = 130$

The number of female employees =  
 $210 - 130 = 80$

**Company D:**

The number of male employees =  
 $(290 + 70)/2 = 360/2 = 180$

The number of female employees =  
 $290 - 180 = 110$

**Company E:**

The number of male employees =  
 $(150 + 30)/2 = 180/2 = 90$

The number of female employees =  
 $150 - 90 = 60$

| Company | The total number of employees working | The number of male employees working | The number of female employees working |
|---------|---------------------------------------|--------------------------------------|--|
| A       | 240                                   | 170                                  | 70                                     |
| B       | 170                                   | 110                                  | 60                                     |
| C       | 210                                   | 130                                  | 80                                     |
| D       | 290                                   | 180                                  | 110                                    |
| E       | 150                                   | 90                                   | 60                                     |

**46. Answer: B**

The number of female employees working in company F =  $80 * 5/4 = 100$

The number of male employees working in company F =  $240 * 50/100 = 120$

The total number of employees working in company F =  $100 + 120 = 220$

**47. Answer: A**

The total number of employees working in companies B and E together =  $170 + 150 = 320$

Required difference =  $320 - 170 = 150$  more

**48. Answer: D**

Required ratio =  $180:60 = 3:1$

**49. Answer: C**

**Company C:**

The total number of employees working in 2022 =  $210 + 120 = 330$

The number of male employees working in 2022 =  $130 * 3/2 = 195$

The number of female employees working in 2022 =  $330 - 195 = 135$

**50. Answer: B**

Required percentage =  $(90 - 60)/60 * 100 = 30/60 * 100 = 50\%$

**51. Answer: E**

$$x^2 + 22x + 120 = 0$$

$$x^2 + 10x + 12x + 120 = 0$$

$$x(x + 10) + 12(x + 10) = 0$$

$$x = -10, -12$$

$$y^2 + 18y + 80 = 0$$

$$y^2 + 10y + 8y + 80 = 0$$

$$y(y + 10) + 8(y + 10) = 0$$

$$y = -10, -8$$

$$x \leq y$$

**52. Answer: D**

$$x^2 + 4x - 60 = 0$$

$$x^2 + 10x - 6x - 60 = 0$$

$$x(x + 10) - 6(x + 10) = 0$$

$$x = -10, 6$$

$$y^2 - 19y + 84 = 0$$

$$y^2 - 12y - 7y + 84 = 0$$

$$y(y - 12) - 7(y - 12) = 0$$

$$y = 12, 7$$

$$x < y$$

**53. Answer: D**

$$5x^2 - 19x + 18 = 0$$

$$5x^2 - 10x - 9x + 18 = 0$$

$$5x(x - 2) - 9(x - 2) = 0$$

$$x = 2, 9/5$$

$$2y^2 - 15y + 28 = 0$$

$$2y^2 - 8y - 7y + 28 = 0$$

$$2y(y - 4) - 7(y - 4) = 0$$

$$y = 7/2, 4$$

$$x < y$$

**54. Answer: B**

$$x^2 - 19x + 88 = 0$$

$$x^2 - 11x - 8x + 88 = 0$$

$$x(x - 11) - 8(x - 11) = 0$$

$$x = 8, 11$$

$$y^2 - 14y + 48 = 0$$

$$y^2 - 8y - 6y + 48 = 0$$

$$y(y - 8) - 6(y - 8) = 0$$

$$y = 8, 6$$

$$x \geq y$$

**55. Answer: C**

$$x^2 - 18x + 72 = 0$$

$$x^2 - 12x - 6x + 72 = 0$$

$$x(x - 12) - 6(x - 12) = 0$$

$$x = 12, 6$$

$$y^2 - 20y + 84 = 0$$

$$y^2 - 14y - 6y + 84 = 0$$

$$y(y - 14) - 6(y - 14) = 0$$

$$y = 6, 14$$

**Relationship can't be determined**

**56. Answer: B**

According to question,

$$1000 * (100 + P)/100 - 900 * (100 + P + 10)/100 = 25$$

$$10 * (100 + P) - 9 * (110 + P) = 25$$

$$1000 + 10P - 990 - 9P = 25$$

$$10 + P = 25$$

$$P = 25 - 10 = 15$$

**57. Answer: E**

$$1/x + 1/(x + 10) = 1/12$$

$$(2x + 10) * 12 = x * (x + 10)$$

$$24x + 120 = x^2 + 10x$$

$$x^2 - 14x - 120 = 0$$

$$x^2 - 20x + 6x - 120 = 0$$

$$x(x - 20) + 6(x - 20) = 0$$

$$x = 20, -6 \text{ (Ignore negative value)}$$

C alone complete the work =  $20 + 4 =$   
days

$$B + C = 1/30 + 1/24$$

$$B + C = 9/120 = 3/40$$

$$\text{Required time} = 13(1/3) \text{ days}$$

**58. Answer: A**

$$\text{Present age of Q} = 4x$$

$$\text{Present age of R} = 3x$$

$$3/4 * (P + 4) = 50/100 * (4x + 4)$$

$$3/2 * (P + 4) = 4x + 4$$

$$3 * (P + 4) = 8x + 8$$

$$P + 4 = (8x + 8)/3$$

$$P = (8x + 8)/3 - 4 = (8x + 8 - 12)/3 =$$
  
 $(8x - 4)/3$

$$(8x - 4)/3 - 2 + 3x - 3 = 22$$

$$(8x - 4)/3 + 3x = 27$$

$$(8x - 4 + 9x)/3 = 27$$

$$17x - 4 = 81$$

$$x = 85/17 = 5$$

$$\text{Present age of Q} = 4 * 5 = 20 \text{ years}$$

**59. Answer: A**

$$1/2 * 15 * (x + 5x/2) = 210$$

$$7x/2 = 210 * 2/15$$

$$x = 28 * 2/7$$

$$x = 8$$

The sum of the base of the trapezium  
=  $7 * 8/2 = 28 \text{ cm}$

**60. Answer: C**

Downstream speed of the boat =  $u$   
km/hr

Upstream speed of the boat =  $v$   
km/hr

$$u + v = 3x$$

$$u - v = x$$

Speed of the boat in still water =  $3x/2$   
=  $1.5x$

Speed of the current =  $x/2 = 0.5x$

$$140/(1.5x + 0.5x) + 140/(1.5x - 0.5x) =$$
  
15

$$140/2x + 140/x = 15$$

$$(140 + 280)/2x = 15$$

$$420/2x = 15$$

$$210/x = 15$$

$$x = 14 \text{ km/hr}$$

Downstream speed of the boat =  $(1.5$   
 $* 14) + 0.5 * 14 = 21 + 7 = 28 \text{ km/hr}$

**Directions (61-65):**

The number of comic books in library  
A = 150

The number of fantasy books in  
library A =  $150 * 100/150 = 100$



The total number of comic and fantasy books in library A =  $150 + 100 = 250$

The total number of comic and fantasy books in library D =  $250 * 240/100 = 600$

The number of comic books in library D =  $600 * 7/(7 + 5) = 600 * 7/12 = 350$

The number of fantasy books in library D =  $600 - 350 = 250$

The number of fantasy books in library C =  $350 * 4/5 = 280$

The total number of comic and fantasy books in library C =  $220 * 2 = 440$

The number of comic books in library C =  $440 - 280 = 160$

The number of comic books in library B =  $160 * 150/100 = 240$

The number of fantasy books in library B =  $160 * 100/100 = 320$

The total number of comic and fantasy books in library B =  $240 + 320 = 560$

| Library | The number of comic books | The number of fantasy books | The total number of comic and fantasy books |
|---------|---------------------------|-----------------------------|---|
| A       | 150                       | 100                         | 250   |
| B       | 240                       | 320                         | 560   |
| C       | 160                       | 280                         | 440   |
| D       | 350                       | 250                         | 600   |

**61. Answer: A**

Required difference =  $560 - 350 = 210$

**62. Answer: C**

Required percentage =  $(240 - 150)/150 * 100 = 90/150 * 100 = 60\%$  more

**63. Answer: B**

Required average =  $(160 + 320)/2 = 480/2 = 240$

**64. Answer: A**

The total number of comic and fantasy books in library E =  $440 + 100 = 540$

The number of fantasy books in library E =  $280 * 3/4 = 210$

The number of comic books in library E =  $540 - 210 = 330$

**65. Answer: D**

Required ratio =  $250:250 = 1:1$

**66. Answer: D**

$(21.18 * 8.99) + \sqrt{1295} * 14.14 = ? + 173.09$

$189 + 504 = ? + 173$

$? = 520$

**67. Answer: A**

$196.13 \div 13.69 + 81.13 \div 2.99^3 = ? - 45.35$

$196 \div 14 + 81 \div 3^3 = ? - 45$

$14 + 3 = ? - 45$

$? = 62$

**68. Answer: C**

$$181.99 \div 13.01 \div 6.99 \times 49 = 7^? * 2$$

$$14 \times 7^{-1} \times 7^2 = 7^? * 2$$

$$2 = ?$$

**69. Answer: D**

$$? \approx (270/3) - 11 \times 12 + \sqrt[3]{729}$$

$$= 90 - 132 + 9$$

$$= -33$$

**70. Answer: C**

$$45.01\% \text{ of } 599.89 \div [(24.89 + 15.32)\% \text{ of } 500.21] = ? \div 40.11$$

$$45\% \text{ of } 600 \div [(25 + 15)\% \text{ of } 500] = ? \div 40$$

$$45 * 6 \div (40\% \text{ of } 500) = ? / 40$$

$$270 * 40 / 200 = 54$$

**Directions (71-75):**

The total number of hand washes sold by shop A =  $4500 * 12/100 = 540$

The total number of hand washes sold by shop B =  $4500 * 20/100 = 900$

The total number of hand washes sold by shop C =  $4500 * 30/100 = 1350$

The total number of hand washes sold by shop D =  $4500 * 22/100 = 990$

The total number of hand washes sold by shop E =  $4500 * 16/100 = 720$

**71. Answer: C**

The total number of hand washes sold by shop F =  $900 * 70/100 = 630$

$$\text{Required total} = 630 + 540 = 1170$$

**72. Answer: A**

The number of Dove hand washes sold by shop C =  $1350 * 4/(2 + 4 + 3)$

$$= 1350 * 4/9 = 600$$

The total number of Dove hand washes manufactured by shop C =

$$600 + 120 = 720$$

**73. Answer: D**

The total number of hand washes sold by shops A and E =  $540 + 720 = 1260$

$$1260$$

$$\text{Required difference} = 1260 - 900 =$$

$$360$$

**74. Answer: C**

Let the number of Himalaya hand washes sold by shop A = x

And the number of Dettol hand washes sold by shop A = x + 30

And the number of Dove hand washes sold by shop A = x - 30

$$x + 30 + x + x - 30 = 540$$

$$3x = 540$$

$$x = 180$$

The number of Dettol hand washes sold by shop A =  $180 + 30 = 210$

The number of Dove hand washes sold by shop A =  $180 - 30 = 150$

Required ratio =  $210:150 = 7:5$

**75. Answer: B**

Required percentage =  $(990 - 720)/720 * 100 = 270/720 * 100 = 37.5\%$

**76. Answer: C**

Profit ratio of A, B and C =  $x * 2:(x + 1000) * 2:(x - 2000) * 1$

$(2x + 2000)/(2x + 2x + 2000 + x - 2000) = 4500/10000$

$45x = 40x + 40000$

$x = 8000$

**77. Answer: B**

$(x + 3)C_1/(5 + x + x + 3 + 3)C_1 = 1/3$

$11 + 2x = 3x + 9$

$x = 2$

**78. Answer: C**

$28 * x + 4 * (x + 8) = 32 * 51$

$28x + 4x + 32 = 1632$

$32x = 1600$

$x = 50 \text{ kg}$

Total weight of the four new students =  $4 * (50 + 8) = 4 * 58 = 232 \text{ kg}$

**79. Answer: B**

$CI - SI = 1500$

$(X + 20000) * [(1 + 10/100)^2 - 1] - [X * 2 * 12 / 100] = 1500$

$(X + 20000) * [(110/100)^2 - 1] - (24X / 100) = 1500$

$(X + 20000) * [(121 - 100) / 100] - (24X / 100) = 1500$

$(X + 20000) * (21 / 100) - (24X / 100) = 1500$

$(21X / 100) + 4200 - (24X / 100) = 1500$

$(3X / 100) = 2700$

$X = 2700 * (100 / 3) = 90000$

**80. Answer: D**

The ratio of the quantity of milk to water in the resultant mixture = 1:1

$(x + 100 + 100)/(x + x) = 1/1$

$x + 200 = 2x$

$x = 200$

The quantity of water left in the vessel =  $200 + 200 = 400 \text{ liters}$

## IBPS RRB PO Prelims 2023 Practice Set (Hindi Version)

### Reasoning Ability

**निर्देश (1-5):** निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।

आठ व्यक्ति - P, Q, R, S, T, U, V और W एक वृत्ताकार मेज़ के चारों ओर इस प्रकार बैठे हैं कि उनमें से कुछ अंदर की ओर उन्मुख हैं जबकि कुछ बाहर की ओर उन्मुख हैं, लेकिन आवश्यक नहीं कि इसी क्रम में हों। दो से अधिक आसन्न व्यक्तियों का मुख समान दिशा की ओर नहीं है।

Q, R के बाएं से दूसरे स्थान पर बैठा है जहां दोनों का मुख अलग-अलग दिशाओं की ओर है। Q और W के मध्य दो व्यक्ति बैठे हैं, जो R के आसन्न नहीं बैठा है। W, V के विपरीत बैठा है, जो U के दायें से दूसरे स्थान पर बैठा है। U, मेज़ के बाहर की ओर उन्मुख है और S के तत्काल दायें बैठा है। S और T के मध्य दो व्यक्ति बैठे हैं, जिसका मुख S के समान दिशा की ओर है। T, Q के आसन्न नहीं बैठा है।

**1) निम्नलिखित में से कौन सा व्यक्ति P के दायें से दूसरे स्थान पर बैठा है?**

- A. वह व्यक्ति जो T के बायें से दूसरे स्थान पर बैठा है
- B. S
- C. वह व्यक्ति जो U के दायें से तीसरे स्थान पर बैठा है
- D. W
- E. इनमें से कोई नहीं

**2) दी गई व्यवस्था के आधार पर निम्नलिखित पांच में से चार एक निश्चित तरीके से समान हैं और इस प्रकार एक समूह बनाते हैं। निम्नलिखित में से कौन सा समूह से संबंधित नहीं है?**

- a) T
- b) Q
- c) S
- d) R
- e) U

**3) निम्नलिखित में से कौन सा व्यक्ति Q के तत्काल दायें बैठा है?**

- a) P
- b) R
- c) W
- d) U
- e) इनमें से कोई नहीं

**4) यदि U, T से संबंधित है और R एक निश्चित तरीके से S से संबंधित है, तो निम्नलिखित में से कौन सा व्यक्ति P से संबंधित है?**

- A. V
- B. Q
- C. U
- D. W
- E. इनमें से कोई नहीं

**5) U के दायें से गिनने पर W और U के मध्य कितने व्यक्ति बैठे हैं?**

- A. पांच
- B. चार
- C. एक
- D. दो
- E. इनमें से कोई नहीं

**निर्देश (6-8): निम्नलिखित कथनों का अध्ययन करें और फिर तय करें कि दिए गए निष्कर्षों में से कौन सा निष्कर्ष सामान्य रूप से ज्ञात तथ्यों की अवहेलना करते हुए दिए गए कथनों का तार्किक रूप से अनुसरण करता है।**

**6) कथन:**

सभी बेड(Beds) वुडन(Wooden) हैं।  
कुछ वुडन(Wooden) टेबल(Tables) हैं।  
केवल कुछ ही टेबल(Tables) आयरन(Iron) हैं।  
कोई चेयर(Chair) बेड(Bed) नहीं है।

**निष्कर्ष:**

- I) कुछ बेड(Bed) आयरन(Iron) हो सकते हैं।
- II) कोई टेबल(Tables) चेयर(Chair) नहीं है।
- A. केवल निष्कर्ष I अनुसरण करता है
- B. केवल निष्कर्ष II अनुसरण करता है
- C. निष्कर्ष I और II दोनों अनुसरण करते हैं
- D. या तो निष्कर्ष I या II अनुसरण करता है
- E. न तो निष्कर्ष I और न ही II अनुसरण करता है

**7) कथन:**

कोई फ्रेश(Fresh) स्टेल(Stale) नहीं है।  
कुछ ग्रीन्स(greens) स्टेल(Stale) हैं।  
केवल कुछ ही फ्रेश(Fresh) ग्रेप्स(Grapes) हैं।

सभी ग्रीन्स(greens) वेगन(Vegan) हैं।

**निष्कर्ष:**

- I) कुछ वेगन(Vegan) स्टेल(Stale) नहीं हैं।
- II) कुछ ग्रेप्स(Grapes) ग्रीन्स(greens) नहीं हैं।
- A. केवल निष्कर्ष I अनुसरण करता है
- B. केवल निष्कर्ष II अनुसरण करता है
- C. निष्कर्ष I और II दोनों अनुसरण करते हैं
- D. या तो निष्कर्ष I या II अनुसरण करता है
- E. न तो निष्कर्ष I और न ही II अनुसरण करता है

**8) कथन:**

केवल कुछ ही पिंक(Pink) पब्लिक(Public) हैं।  
सभी पब्लिक(Public) विलेज(Village) हैं।  
केवल पिंक(pink) ही मेट्रो(Metro) है।  
कुछ विलेज(Village) सिटी(City) हैं।

**निष्कर्ष:**

- I) सभी मेट्रो(Metro) कभी सिटी(City) नहीं हो सकते हैं।
- II) कुछ विलेज(Village) पिंक(pink) हैं।
- A. केवल निष्कर्ष I अनुसरण करता है
- B. केवल निष्कर्ष II अनुसरण करता है
- C. निष्कर्ष I और II दोनों अनुसरण करते हैं
- D. या तो निष्कर्ष I या II अनुसरण करता है
- E. न तो निष्कर्ष I और न ही II अनुसरण करता है

**निर्देश (9-13): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।**

आठ व्यक्ति H, I, J, K, L, M, N और O एक वर्गाकार मेज़ के चारों ओर इस प्रकार बैठे हैं कि उनमें से चार मेज़ के कोनों में बैठे हैं जबकि अन्य चार भुजाओं के बीच में बैठे हैं। उन सभी का मुख केंद्र से बाहर की ओर है।

I मेज़ के कोने में बैठा है और J से तीन स्थान दूर बैठा है। H, J के बायें से दूसरे स्थान पर बैठा है। न तो I और न ही J, K के आसन्न बैठा है। H और I के बीच बैठे व्यक्तियों की संख्या, L और M के बीच बैठे व्यक्तियों की संख्या के समान है, जो K के दायें से दूसरे स्थान पर बैठा है। L, H के विपरीत नहीं बैठा है। N, O के तत्काल दायें बैठा है।

**9) निम्नलिखित में से कौन सा व्यक्ति N के बायें से तीसरे स्थान पर बैठा है?**

- A. वह व्यक्ति जो H के तत्काल बायें बैठा है
- B. J
- C. वह जो I के विपरीत बैठा है
- D. L
- E. O

**10) O के बाएं से गिनने पर O और L के बीच कितने व्यक्ति बैठे हैं?**

- A. एक
- B. दो
- C. तीन
- D. चार
- E. कोई नहीं

**11) दी गई व्यवस्था के अनुसार निम्नलिखित पांच में से चार एक निश्चित तरीके से समान हैं और इसलिए एक समूह बनाते हैं। वह खोजें जो उस समूह से संबंधित नहीं है**

- A. KO
- B. HM
- C. LJ
- D. IM
- E. HN

**12) जितने व्यक्ति I और O के बीच बैठे हैं उतने ही व्यक्ति N और \_\_\_\_\_ के बीच बैठे हैं जब I और N दोनों के बाईं ओर से गिना जाता है।**

- A. H
- B. K
- C. J
- D. L
- E. इनमें से कोई नहीं

**13) अंतिम व्यवस्था के संबंध में निम्नलिखित में से कौन सा/से कथन सत्य है/हैं?**

- I) I और M के बीच केवल तीन व्यक्ति बैठते हैं
  - II) J उस व्यक्ति के तत्काल बायें बैठा है जो L के विपरीत बैठा है
  - III) H, L के दायें से दूसरे स्थान पर बैठा है
- A. केवल I और II
  - B. केवल I
  - C. केवल III
  - D. केवल I और III

E.सभी I, II और III

14) शब्द "INVESTMENTS" में अक्षरों के ऐसे कितने जोड़े हैं जिनमें से प्रत्येक के बीच उतने ही अक्षर हैं जितने अंग्रेजी वर्णमाला श्रृंखला (आगे और पीछे दोनों दिशाओं) में हैं?

- A.कोई नहीं
- B.एक
- C.दो
- D.तीन
- E.तीन से अधिक

निर्देश (15-18): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।

एक निश्चित कोड भाषा में,

"Mandatory Proper shut down" को "lk fk iz ks" के रूप में लिखा जाता है

"Use proper procedure briefly" को "fk mn as mp" के रूप में लिखा जाता है

"Race Down the ground" को "lk ad iw fa" के रूप में लिखा जाता है

"Use common procedure" को "as mp zs" के रूप में लिखा जाता है

15) दी गई कोड भाषा में "Proper procedure" वाक्यांश के लिए कोड क्या हो सकता है?

- A.fk ad
- B.ad as
- C.fk as
- D.fk mp
- E.या तो c या d

16) दी गई कोड भाषा में "Common" शब्द का कोड क्या है?

- A.mp
- B.as
- C.lk
- D.zs
- E.निर्धारित नहीं किया जा सकता

17) दी गई कोड भाषा में "Mandatory match Ground" वाक्यांश के लिए कोड क्या हो सकता है?

- A.fk ks fa
- B.lk ad iz
- C.ad lk fa
- D.iz lp ad
- E.fa mn ks

18) दी गई कोड भाषा में वाक्यांश "Briefly procedure" के लिए क्या कोड है, यदि वाक्यांश "Make use" के लिए कोड "as jk" है?

- A.as zs
- B.jk fa
- C.mn mp
- D.as mn
- E.निर्धारित नहीं किया जा सकता

निर्देश (19-20): दिए गए प्रश्न में, विभिन्न तत्वों के बीच संबंध को कथनों के बाद कुछ निष्कर्षों में दिखाया गया है। वह निष्कर्ष ज्ञात कीजिए जो निश्चित रूप से सत्य है।

**दिए गए उत्तर:**

- a) केवल निष्कर्ष I सत्य है
- b) केवल निष्कर्ष II सत्य है
- c) या तो निष्कर्ष I या II सत्य है
- d) न तो निष्कर्ष I और न ही II सत्य है
- e) निष्कर्ष I और II दोनों सत्य हैं

**19) कथन:**

$$A \geq T > G; S < J < E \leq G; S > Q = I$$

**निष्कर्ष:**

- I)  $A > I$
- II)  $Q < E$
- A.a
- B.b
- C.c
- D.d
- E.e

**20) कथन:**

$$Y \geq F > J > U; B < R \leq F < K; B \geq W = D$$

**निष्कर्ष:**

- I)  $D < R$
- II)  $K \leq Y$
- A.a
- B.b
- C.c
- D.d
- E.e

**21) यदि दी गई संख्या "548372689" में सम अंकों में एक की वृद्धि कर दी जाती है और विषम अंकों को दो से घटा दिया जाता है, तो**

**नई बनी संख्या में कितने अंकों की एक से अधिक बार पुनरावृत्ति होती है?**

- A. एक
- B. दो
- C. तीन
- D. चार
- E. कोई नहीं

**निर्देश (22-24): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।**

A अपना घर छोड़ देता है और पूर्व की ओर 10 मीटर चलता है, फिर वह बुक स्टॉल तक पहुंचने के लिए अपने दाहिनी ओर 8 मीटर चलता है। वह फिर से अपनी बाईं ओर मुड़ता है और 5 मीटर चलता है, अंत में वह अपने स्कूल तक पहुंचने के लिए 6 मीटर बाईं ओर चलता है।

दूसरी ओर B अपना घर छोड़ देता है और पूर्व की ओर 10 मीटर चलता है, फिर वह एटीएम तक पहुंचने के लिए अपने दाहिनी ओर 12 मीटर चलता है। वह फिर से अपनी दाहिनी ओर मुड़ता है और 7 मीटर चलता है, अंत में वह अपने स्कूल तक पहुंचने के लिए अपने बायीं ओर 2 मीटर चलता है।

**22) A के घर और B के घर के बीच न्यूनतम दूरी (लगभग) क्या है?**

- A. 10 मीटर
- B. 15 मीटर
- C. 17 मीटर
- D. 21 मीटर
- E. 22 मीटर



23) A के पहले बाएँ मुड़ने के सन्दर्भ में एटीएम की दिशा क्या है?

- A.उत्तर-पश्चिम
- B.दक्षिण-पश्चिम
- C.पूर्व
- D.दक्षिण-पूर्व
- E.उत्तर-पूर्व

24) विषम का पता लगाएं?

- A.A का घर-B का घर
- B.बुकस्टॉल - स्कूल
- C.बुकस्टॉल- एटीएम
- D.B का घर - स्कूल
- E.स्कूल - एटीएम

**निर्देश (25-27): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।**

एक निश्चित संख्या में व्यक्ति एक रेखीय पंक्ति में उत्तर की ओर मुख करके बैठे हैं। P और M के मध्य केवल दो व्यक्ति बैठे हैं, जो पंक्ति के किसी एक छोर से दूसरे स्थान पर बैठा है। T, P के दायें से दूसरे स्थान पर बैठा है। M और T के बीच बैठे व्यक्तियों की संख्या, P और O के बीच बैठे व्यक्तियों की संख्या से एक कम है। Q, O के तत्काल बायें बैठा है। जितने व्यक्ति T और Q के बीच बैठे हैं उतने ही व्यक्ति O और A के बीच बैठे हैं, जो किसी एक छोर से पांचवें स्थान पर बैठा है। K, A के दायें से तीसरे स्थान पर बैठा है और Q के आसन्न नहीं बैठा है।

25) रेखिक पंक्ति में कितने व्यक्ति बैठे हैं?

- A.24
- B.20
- C.15
- D.18
- E.16

26) निम्नलिखित में से कौन सा व्यक्ति Q के बायें से तीसरे स्थान पर बैठा है?

- a) P
- b) A
- c) M
- d) K
- e) T

27) A और P के बीच कितने व्यक्ति बैठे हैं?

- A.पांच
- B.दो
- C.सात
- D.आठ
- E.एक

**निर्देश (28-30): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।**

छह इमारतों में अलग-अलग मंजिलें हैं। W में X से अधिक मंजिलें हैं लेकिन Y से कम मंजिलें हैं। Z में V से अधिक मंजिलें हैं। U की मंजिलें X से कम है लेकिन V से अधिक हैं। Z की मंजिलें W से कम नहीं है। Y में मंजिलों की संख्या सबसे अधिक नहीं है। जिस इमारत में दूसरी सबसे कम मंजिलें हैं, उसमें 22 मंजिलें हैं।

**28) निम्नलिखित में से किस इमारत में मंजिलों की संख्या दूसरी सबसे अधिक है?**

- A.Z
- B.W
- C.Y
- D.X
- E.निर्धारित नहीं किया जा सकता

**29) यदि Y में 29 मंजिलें हैं, तो U और V इमारतों में मंजिलों की कुल संख्या कितनी है?**

- A.61
- B.41
- C.51
- D.31
- E.इनमें से कोई नहीं

**30) इमारत W में मंजिलों की कुल संख्या कितनी हो सकती है?**

- A.22
- B.27
- C.19
- D.21
- E.20

**निर्देश (31-35): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।**

सात व्यक्ति अर्थात्- M, N, O, P, Q, R और S एक सात मंजिला इमारत की विभिन्न मंजिलों में इस प्रकार रह रहे हैं कि सबसे निचली मंजिल की संख्या 1 है, इसके तत्काल

ऊपर वाली मंजिल की संख्या 2 है और इसी तरह आगे तक, सबसे ऊपरी मंजिल की संख्या 7 है। प्रत्येक व्यक्ति विभिन्न देशों अर्थात्- चीन, भारत, जापान, कोरिया, रूस, स्पेन और यूएसए से है। जरूरी नहीं कि सभी जानकारी इसी क्रम में हों।

O एक सम संख्या वाली मंजिल पर रहता है और कोरिया से संबंधित व्यक्ति से तीन मंजिल नीचे रहता है। P उस व्यक्ति के तत्काल नीचे रहता है जो कोरिया से संबंधित है और उस व्यक्ति से दो मंजिल ऊपर है जो जापान से संबंधित है। P के ऊपर मंजिलों की संख्या, रूस से संबंधित व्यक्ति के नीचे मंजिलों की संख्या के समान है। R उस व्यक्ति से तीन मंजिल ऊपर रहता है जो रूस से संबंधित है, जो M के तत्काल ऊपर रहता है। वह व्यक्ति जो स्पेन से संबंधित है, उस व्यक्ति के तत्काल नीचे रहता है जो भारत से संबंधित है और N के तत्काल ऊपर रहता है। S न तो स्पेन से और न ही यूएसए से संबंधित है।

**31) निम्नलिखित में से कौन सा व्यक्ति स्पेन से संबंधित है?**

- A.वह व्यक्ति जो P के तत्काल नीचे रहता है
- B.R
- C.वह व्यक्ति जो छठी मंजिल पर रहता है
- D.S
- E.इनमें से कोई नहीं

**32) निम्नलिखित में से किस मंजिल पर S रहता है?**

- A.मंजिल 6
- B.मंजिल 3

C. मंजिल 4

D. मंजिल 1

E. इनमें से कोई नहीं

**33) N और जापान से सम्बंधित व्यक्ति के मध्य कितनी मंजिलें हैं?**

A. एक

B. दो

C. तीन

D. तीन से अधिक

E. कोई नहीं

**34) यदि सभी व्यक्ति नीचे से ऊपर तक वर्णानुक्रम में रहते हैं, तो कितने व्यक्ति अपने स्थान पर अपरिवर्तित रहते हैं?**

A. एक

B. दो

C. तीन

D. तीन से अधिक

E. कोई नहीं

**35) M निम्नलिखित में से किस देश से संबंधित है?**

A. चीन

B. भारत

C. कोरिया

D. यूएसए

E. इनमें से कोई नहीं

**निर्देश (36-40): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और नीचे दिए गए प्रश्नों के उत्तर दें।**

आठ व्यक्ति - I, J, K, L, M, N, O और P अलग-अलग पदनाम - निदेशक, प्रधानाचार्य, उप-प्रधानाचार्य, लेखाकार, परामर्शदाता, शिक्षक, पुस्तकालयाध्यक्ष और स्कूली नेता (एसपीएल) के साथ स्कूल में काम कर रहे हैं जहां निदेशक वरिष्ठतम पदांकित व्यक्ति है और स्कूली नेता (एसपीएल) कनिष्ठतम पदांकित व्यक्ति हैं। O और M के बीच केवल तीन व्यक्ति पदांकित हैं, जो लेखाकार से वरिष्ठ है। केवल चार व्यक्ति K से कनिष्ठ हैं। P, M से कनिष्ठ है और L से तत्काल वरिष्ठ है। न तो L और न ही J पुस्तकालयाध्यक्ष और उप-प्रधानाचार्य हैं। और N के बीच दो से अधिक व्यक्ति पदांकित हैं, जो J से वरिष्ठ है।

**36) कितने व्यक्ति J से वरिष्ठ हैं?**

A. कोई नहीं

B. एक

C. दो

D. तीन से अधिक

E. तीन

**37) K और स्कूली नेता के बीच कितने व्यक्तियों को पदांकित किया गया है?**

A. एक

B. जितने व्यक्ति M से वरिष्ठ हैं

C. कोई नहीं

D. तीन से अधिक

E. जितने व्यक्ति J और L के बीच पदांकित हैं

**38) दी गई व्यवस्था के अनुसार निम्नलिखित पांच में से चार एक निश्चित**

तरीके से समान हैं और इसलिए एक समूह बनाते हैं। वह खोजें जो उस समूह से संबंधित नहीं है।

A.ML

B.NK

C.OK

D.IL

E.JP

39) अंतिम व्यवस्था के संबंध में निम्नलिखित में से कौन सा/से कथन सत्य है/हैं?

A.केवल दो व्यक्ति P से कनिष्ठ हैं

B.M, N से कनिष्ठ है और L से वरिष्ठ है

C.I और P के बीच तीन व्यक्तियों को पदांकित किया गया है

D.K, M से तत्काल वरिष्ठ है।

E. b और d दोनों

40) निम्नलिखित में से कौन सा व्यक्ति उप-प्रधानाचार्य के रूप में कार्यरत है?

a) P

b) J

c) O

d) K

e) M

### Quantitative Aptitude

निर्देश (41-45): निम्नलिखित संख्या श्रंखला में गलत संख्या ज्ञात कीजिए।

41) 40, 42, 50, 77, 141, 266

A.266

B.141

C.50

D.42

E.40

42) 72, 85, 59, 98, 46, 108

A.108

B.46

C.98

D.85

E.72

43) 74, 92, 114, 142, 184, 224

A.184

B.142

C.114

D.92

E.74

44) 7, 11, 19, 35, 69, 131, 259

A. 69

B.19

C.259

D.11

E.इनमें से कोई नहीं

45) 1, 18, 44, 81, 131, 198

A.198

B.81

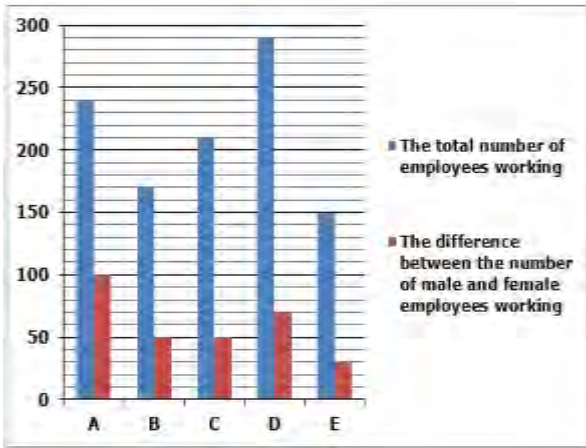
C.18

D.131

E.44

**निर्देश (46-50): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और प्रश्नों के उत्तर दें।**

दिया गया बार ग्राफ 2021 में पांच अलग-अलग कंपनियों यानी A, B, C, D और E में काम करने वाले कर्मचारियों की कुल संख्या को दर्शाता है और 2021 में पांच अलग-अलग कंपनियों में काम करने वाले पुरुष और महिला कर्मचारियों की संख्या के बीच के अंतर को भी दर्शाता है।



**नोट:** प्रत्येक कंपनी में पुरुष कर्मचारियों की संख्या, महिला कर्मचारियों की संख्या से अधिक है।

**46) यदि कंपनी C से कंपनी F में काम करने वाली महिला कर्मचारियों की संख्या का अनुपात 4:5 है और कंपनी F में काम करने वाले पुरुष कर्मचारियों की संख्या, कंपनी A में काम करने वाले कर्मचारियों की कुल संख्या का 50% है, तो कंपनी F में काम करने वाले कर्मचारियों की कुल संख्या ज्ञात कीजिये?**

- A.360  
B.220

C.400

D.310

E.इनमें से कोई नहीं

**47) एकसाथ कंपनी B और E में काम करने वाले कर्मचारियों की कुल संख्या, कंपनी A में काम करने वाले पुरुष कर्मचारियों की संख्या से कितनी अधिक/कम है?**

A.150 अधिक

B.100 कम

C.180 अधिक

D.110 कम

E.इनमें से कोई नहीं

**48) कंपनी D में काम करने वाले पुरुष कर्मचारियों की संख्या से कंपनी E में काम करने वाली महिला कर्मचारियों की संख्या का अनुपात ज्ञात कीजिये?**

A.4:5

B.8:9

C.7:6

D.3:1

E.इनमें से कोई नहीं

**49) कंपनी C में, 2022 में काम करने वाले कर्मचारियों की कुल संख्या, पिछले वर्ष की तुलना में 120 अधिक है और 2021 से 2022 में काम करने वाले पुरुष कर्मचारियों की संख्या का अनुपात 2:3 है। 2022 में कंपनी C में काम करने वाली महिला कर्मचारियों की संख्या ज्ञात कीजिये?**

A.200

B.195

C.135

D.230

E.इनमें से कोई नहीं

50) कंपनी E में काम करने वाले पुरुष कर्मचारियों की संख्या, कंपनी B में काम करने वाली महिला कर्मचारियों की संख्या से कितने प्रतिशत अधिक है?

A.90%

B.50%

C.20%

D.70%

E.इनमें से कोई नहीं

निर्देश (51-55): निम्नलिखित प्रश्न में I और II के रूप में दो समीकरण हैं। आपको दोनों समीकरणों को हल करना है और उनके बीच संबंध निर्धारित करना है और उत्तर देना है,

51) I)  $x^2 + 22x + 120 = 0$

II)  $y^2 + 18y + 80 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  या संबंध निर्धारित नहीं किया जा सकता है।

D.  $x < y$

E.  $x \leq y$

52)

I)  $x^2 + 4x - 60 = 0$

II)  $y^2 - 19y + 84 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  या संबंध निर्धारित नहीं किया जा सकता है।

D.  $x < y$

E.  $x \leq y$

53)

I)  $5x^2 - 19x + 18 = 0$

II)  $2y^2 - 15y + 28 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  या संबंध निर्धारित नहीं किया जा सकता है।

D.  $x < y$

E.  $x \leq y$

54)

I)  $x^2 - 19x + 88 = 0$

II)  $y^2 - 14y + 48 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  या संबंध निर्धारित नहीं किया जा सकता है।

D.  $x < y$

E.  $x \leq y$

55)

I)  $x^2 - 18x + 72 = 0$

II)  $y^2 - 20y + 84 = 0$

A.  $x > y$

B.  $x \geq y$

C.  $x = y$  या संबंध निर्धारित नहीं किया जा सकता है।

D.  $x < y$

E.  $x \leq y$

56) वस्तु A का क्रय मूल्य 1000 रुपये है और वस्तु B का क्रय मूल्य 900 रुपये है। यदि A को P% लाभ पर बेचा जाता है और B को  $(P + 10)\%$  लाभ पर बेचा जाता है और वस्तु A और वस्तु B के विक्रय मूल्य के बीच का अंतर 25 रुपये है। P का मान ज्ञात कीजिए।

A. 10

B. 15

C. 25

D. 30

E. इनमें से कोई नहीं

57) A अकेले कार्य को  $x$  दिनों में पूरा करता है और B अकेले कार्य को  $(x + 10)$  दिनों में पूरा करता है। यदि A और B मिलकर कार्य को 12 दिनों में पूरा कर सकते हैं और C अकेले कार्य को  $(x + 4)$  दिनों में पूरा करता है, तो B और C मिलकर कार्य को कितने दिनों में पूरा कर सकते हैं?

A.  $11\frac{1}{3}$  दिन

B.  $15\frac{1}{3}$  दिन

C.  $14\frac{1}{3}$  दिन

D.  $12\frac{1}{3}$  दिन

E.  $13\frac{1}{3}$  दिन

58) 4 वर्ष बाद P की आयु का  $\frac{3}{4}$ , 4 वर्ष बाद Q की आयु के 50% के बराबर है और Q से R की वर्तमान आयु का अनुपात 4:3 है और 2 वर्ष पहले P की आयु और 3 वर्ष पहले R की आयु का योग 22 वर्ष है। Q की वर्तमान आयु ज्ञात कीजिए।

A. 20 वर्ष

B. 12 वर्ष

C. 15 वर्ष

D. 18 वर्ष

E. इनमें से कोई नहीं

59) स्थिर जल में नाव की गति धारा की गति से तीन गुना अधिक है और नाव 8 घंटे में धारा के प्रतिकूल 288 किमी की दूरी तय करती है, तो नाव को स्थिर जल में 144 किमी की दूरी तय करने में कितना समय लगेगा?

A. 2 घंटे

B. 6 घंटे

C. 4 घंटे

D. 3 घंटे

E. इनमें से कोई नहीं

60) नाव की धारा के अनुकूल और धारा के प्रतिकूल गति के योग से नाव की धारा के अनुकूल और धारा के प्रतिकूल गति के बीच के अंतर का अनुपात 3:1 है। नाव द्वारा धारा के प्रतिकूल और धारा के अनुकूल दोनों में 140 किमी की दूरी तय करने में लिया गया कुल समय 15 घंटे है। नाव की धारा के अनुकूल गति ज्ञात कीजिए।

A. 30 किमी/घंटा

- B.35 किमी/घंटा  
 C.28 किमी/घंटा  
 D.21 किमी/घंटा  
 E.इनमें से कोई नहीं

- B.350  
 C.190  
 D.240  
 E.इनमें से कोई नहीं

**निर्देश (61-65): निम्नलिखित जानकारी को ध्यान से पढ़ें और प्रश्नों के उत्तर दें।**

चार अलग-अलग पुस्तकालयों यानी A, B, C और D में पुस्तकों की कुल संख्या (कॉमिक और फैंटसी), और पुस्तकालय A में कॉमिक पुस्तकों की संख्या 150 है। पुस्तकालय A में कॉमिक पुस्तकों की संख्या उसी दुकान में फैंटसी पुस्तकों की संख्या से 50% अधिक है और पुस्तकालय D में कॉमिक पुस्तकों से फैंटसी पुस्तकों की संख्या का अनुपात 7:5 है। पुस्तकालय D में कॉमिक और फैंटसी पुस्तकों की कुल संख्या पुस्तकालय A में कॉमिक और फैंटसी पुस्तकों की कुल संख्या का 240% है। पुस्तकालय C में फैंटसी पुस्तकों की संख्या पुस्तकालय D में कॉमिक पुस्तकों की संख्या का  $\frac{4}{5}$  है और पुस्तकालय C में कॉमिक और फैंटसी पुस्तकों की औसत संख्या 220 है। पुस्तकालय B में कॉमिक और फैंटसी पुस्तकों की संख्या पुस्तकालय C में कॉमिक पुस्तकों की संख्या से 50% और 100% अधिक है।

**61) पुस्तकालय B में कॉमिक और फैंटसी पुस्तकों की कुल संख्या और पुस्तकालय D में कॉमिक पुस्तकों की संख्या के बीच का अंतर ज्ञात कीजिए?**

- A.210

**62) पुस्तकालय B में कॉमिक पुस्तकों की संख्या पुस्तकालय A में कॉमिक पुस्तकों की संख्या से कितने प्रतिशत अधिक/कम है?**

- A.10% अधिक  
 B.25% कम  
 C.60% अधिक  
 D.45% कम  
 E.इनमें से कोई नहीं

**63) पुस्तकालय C में कॉमिक पुस्तकों और पुस्तकालय B में फैंटसी पुस्तकों की औसत संख्या ज्ञात कीजिए?**

- A.300  
 B.240  
 C.180  
 D.350  
 E.इनमें से कोई नहीं

**64) यदि पुस्तकालय E में कॉमिक और फैंटसी पुस्तकों की कुल संख्या पुस्तकालय C से 100 अधिक है और पुस्तकालय C से पुस्तकालय E में फैंटसी पुस्तकों की संख्या का अनुपात 4:3 है, तो पुस्तकालय E में कॉमिक पुस्तकों की संख्या ज्ञात कीजिए?**

- A.330  
 B.240  
 C.510



D.270

E.इनमें से कोई नहीं

65) पुस्तकालय D में फैंटसी पुस्तकों की संख्या से पुस्तकालय A में कॉमिक और फैंटसी पुस्तकों की कुल संख्या का अनुपात ज्ञात कीजिए?

A.3:5

B.4:9

C.7:5

D.1:1

E.इनमें से कोई नहीं

निर्देश (66-70): निम्नलिखित प्रश्नों में (?) के स्थान पर लगभग कितना मान आना चाहिए?

66)  $(21.18 * 8.99) + \sqrt{1295} * 14.14 = ? + 173.09$

A.570

B.540

C.550

D.520

E.560

67)  $196.13 \div 13.69 + 81.13 \div 2.993 = ? - 45.35$

A.62

B.68

C.70

D.45

E.54

68)  $181.99 \div 13.01 \div 6.99 \times 49 = 7^{?} * 2$

A.5

B.4

C.2

D.3

E.इनमें से कोई नहीं

69)  $269.98/3.02 - 11.04 \times 11.97 + \sqrt[3]{729.01} = ?$

A.-23

B.-43

C.-34

D.-33

E.इनमें से कोई नहीं

70)  $599.89$  का  $45.01\%$   $\div$   $[500.21$  का  $(24.89 + 15.32)\%$ ]  $= ? \div 40.11$

A.58

B.59

C.54

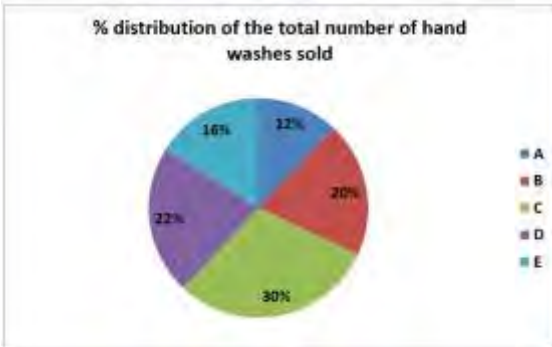
D.34

E.इनमें से कोई नहीं

निर्देश (71-75): निम्नलिखित जानकारी का ध्यानपूर्वक अध्ययन करें और दिए गए प्रश्नों के उत्तर दें।

दिया गया पाई चार्ट पांच अलग-अलग दुकानों यानी A, B, C, D और E द्वारा बेचे गए हैंड वॉश (डेटॉल, डव और हिमालय) की कुल संख्या का प्रतिशत वितरण दर्शाता है।

सभी पांच अलग-अलग दुकानों द्वारा बेचे गए हैंड वाश की कुल संख्या = 4500



71) यदि दुकान F द्वारा बेचे गए हैंड वॉश की कुल संख्या दुकान B द्वारा बेचे गए हैंड वॉश की कुल संख्या का 70% है, तो एक साथ दुकान A और F द्वारा बेचे गए हैंड वॉश की कुल संख्या का योग ज्ञात कीजिए?

- A.1320
- B.1450
- C.1170
- D.1080
- E.इनमें से कोई नहीं

72) यदि दुकान C द्वारा बेचे गए डेटॉल, डव और हिमालय हैंड वॉश की संख्या का अनुपात क्रमशः 2:4:3 है और दुकान C में नहीं बिके हुए डव हैंड वॉश की संख्या 120 है, तो दुकान C द्वारा निर्मित डव हैंड वॉश की कुल संख्या ज्ञात कीजिए?

- A.720
- B.840
- C.900
- D.560
- E.इनमें से कोई नहीं

73) एक साथ दुकान A और E द्वारा बेचे गए हैंड वॉश की कुल संख्या और दुकान B द्वारा बेचे गए हैंड वॉश की कुल संख्या के बीच का अंतर ज्ञात कीजिए?

- A.440
- B.270
- C.510
- D.360
- E.इनमें से कोई नहीं

74) यदि दुकान A द्वारा बेचे गए डेटॉल और डव हैंड वॉश की संख्या उस दुकान में बेचे गए हिमालय हैंड वॉश की संख्या से 30 अधिक और 30 कम है, तो दुकान A द्वारा बेचे गए डेटॉल से डव हैंड वॉश की संख्या का अनुपात ज्ञात कीजिए?

- A.8:9
- B.2:1
- C.7:5
- D.4:3
- E.इनमें से कोई नहीं

75) दुकान D द्वारा बेचे गए हैंड वॉश की कुल संख्या, दुकान E द्वारा बेचे गए हैंड वॉश की कुल संख्या से कितना प्रतिशत अधिक है?

- A.20%
- B.37.5%
- C.45%
- D.12.5%
- E.इनमें से कोई नहीं

76) A और B ने क्रमशः  $x$  रुपये और  $(x + 1000)$  रुपये के निवेश के साथ व्यवसाय शुरू किया और एक वर्ष के बाद, C  $(x - 2000)$  रुपये के निवेश के साथ जुड़ गया। दो वर्ष के अंत में, कुल लाभ 10000 रुपये है और B का लाभ हिस्सा 4500 रुपये है, तो  $x$  का मान ज्ञात करें?

- A. 6000 रुपये
- B. 7000 रुपये
- C. 8000 रुपये
- D. 10000 रुपये
- E. 12000 रुपये

77) एक थैले में 5 लाल गेंदें,  $x$  काली गेंदें,  $(x + 3)$  सफेद गेंदें और 3 हरी गेंदें हैं। यदि बैग में से एक गेंद यादृच्छया निकाली जाती है, तो उस गेंद के सफेद होने की प्रायिकता  $1/3$  है।  $x$  का मान ज्ञात करें?

- A. 3
- B. 2
- C. 5
- D. 1
- E. 4

78) एक कक्षा में 28 छात्रों का औसत वजन  $x$  किग्रा है। यदि चार नए छात्र कक्षा में शामिल होते हैं जिनका औसत वजन  $(x + 8)$  किग्रा है, तब कक्षा का औसत वजन 51 किग्रा हो जाता है। चार नए छात्रों का कुल वजन ज्ञात कीजिए?

- A. 256 किग्रा
- B. 240 किग्रा

- C. 232 किग्रा
- D. 200 किग्रा
- E. इनमें से कोई नहीं

79) केविन ने योजना A में 2 वर्षों के लिए  $x$  रुपये का निवेश किया, जो 12% प्रति वर्ष की दर से साधारण ब्याज प्रदान करता है। उसने योजना B में  $(x + 20000)$  रुपये का भी निवेश किया, जो 2 वर्षों के लिए 10% प्रति वर्ष की दर से चक्रवृद्धि ब्याज प्रदान करता है। यदि योजना A से प्राप्त ब्याज योजना B से प्राप्त ब्याज से 1500 रुपये कम है।  $x$  का मान ज्ञात करें?

- A. 80000
- B. 90000
- C. 70000
- D. 100000
- E. इनमें से कोई नहीं

80) एक बर्तन में  $(x+100)$  लीटर दूध और  $x$  लीटर पानी है। यदि बर्तन में 100 लीटर दूध और  $x$  लीटर पानी मिला दिया जाए, तो दूध और पानी की मात्रा बराबर हो जाती है। बर्तन में शेष पानी की मात्रा ज्ञात कीजिए?

- A. 480 लीटर
- B. 300 लीटर
- C. 250 लीटर
- D. 400 लीटर
- E. इनमें से कोई नहीं

**ANSWER WITH EXPLANATION**

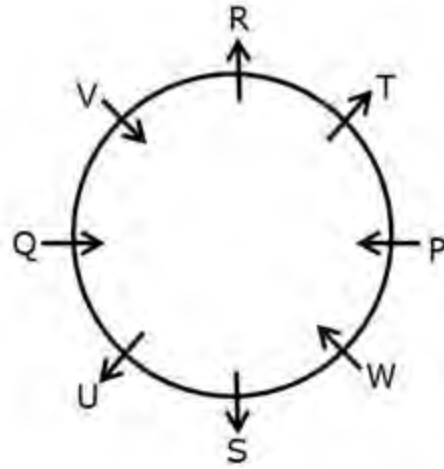
[Click Here to Get the Detailed Video Solution for the above given Reasoning Questions](#)

Or Scan the QR Code to Get the Detailed Video Solutions



**निर्देश (1-5):**

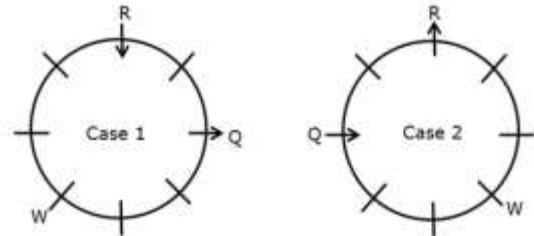
1. उत्तर: C
  2. उत्तर: B (विकल्प b को छोड़कर उन सभी का मुख मेज के बाहर की ओर है।)
  3. उत्तर: D
  4. उत्तर: B
  5. उत्तर: A
- अंतिम व्यवस्था:**



हमारे पास है,

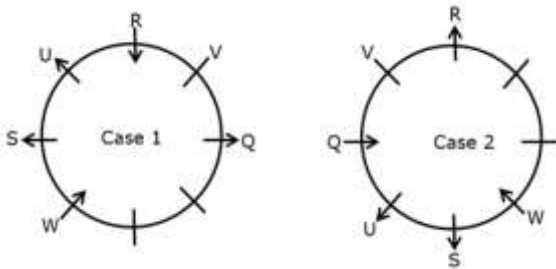
- Q, R के बाएं से दूसरे स्थान पर बैठा है जहां दोनों का मुख अलग-अलग दिशाओं की ओर है।
- Q और W के मध्य दो व्यक्ति बैठे हैं, जो R के आसन्न नहीं बैठे हैं।

उपरोक्त स्थितियों से, दो संभावनाएं हैं।



हमारे पास फिर से है,

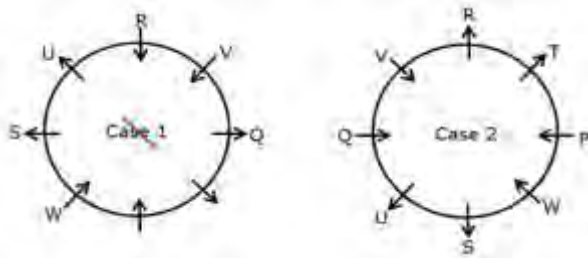
- W, V के विपरीत बैठा है, जो U के दायें से दूसरे स्थान पर बैठा है।
- U, मेज़ के बाहर की ओर उन्मुख है और S के तत्काल दायें बैठा है।



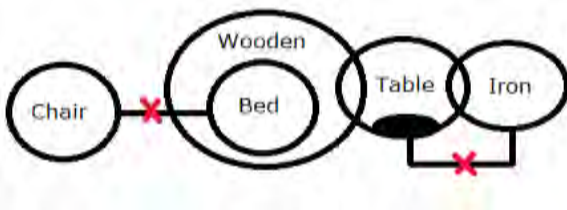
हमारे पास फिर से है,

- s और t के मध्य दो व्यक्ति बैठे हैं, जिसका मुख s के समान दिशा की ओर है।
- T, Q के आसन्न नहीं बैठा है।

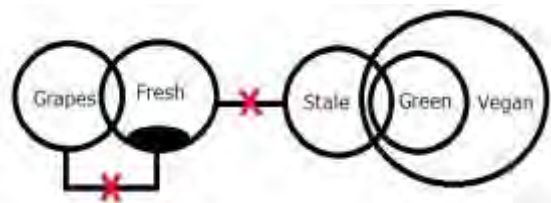
उपरोक्त शर्तों से, केस 1 समाप्त हो जाता है। इसलिए, केस 2 अंतिम व्यवस्था को दर्शाता है।



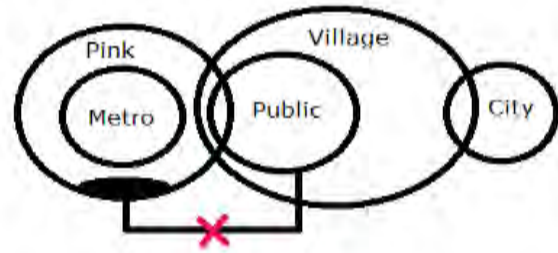
**6. उत्तर: A**



**7. उत्तर: E**



**8. उत्तर: C**



**निर्देश (9-13):**

**9. उत्तर: C**

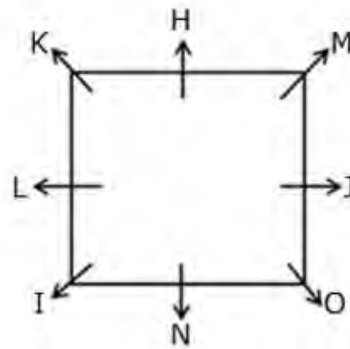
**10. उत्तर: D**

**11. उत्तर: B** (विकल्प b को छोड़कर शेष में पहला व्यक्ति दूसरे व्यक्ति के विपरीत बैठा है)

**12. उत्तर: C**

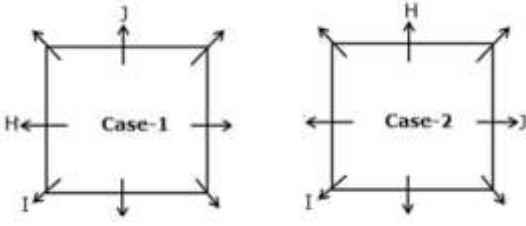
**13. उत्तर: D**

**अंतिम व्यवस्था**



हमारे पास है,

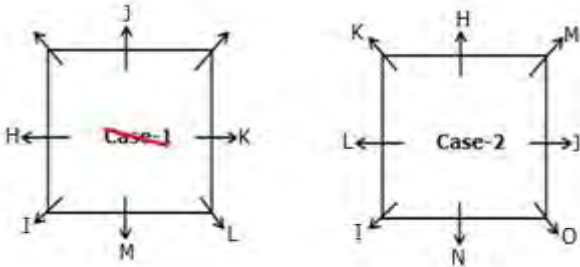
- I मेज़ के कोने में बैठा है और J से तीन स्थान दूर बैठा है।
  - H, J के बायें से दूसरे स्थान पर बैठा है।
- उपरोक्त स्थिति से, दो संभावनाएं हैं



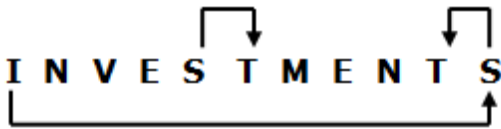
हमारे पास फिर से है,

- न तो I और न ही J, K के आसन्न बैठा है।
- H और I के बीच बैठे व्यक्तियों की संख्या, L और M के बीच बैठे व्यक्तियों की संख्या के समान है, जो K के दायें से दूसरे स्थान पर बैठा है।
- L, H के विपरीत नहीं बैठा है।
- N, O के तत्काल दायें बैठा है।

तो केस 1 समाप्त हो जाता है, इसलिए केस -2 अंतिम व्यवस्था दिखाता है



**14. उत्तर: D**



**निर्देश (15-18):**

- 15. उत्तर: E**
- 16. उत्तर: D**
- 17. उत्तर: D**

**18. उत्तर: C**

| शब्द            | कोड      |
|-----------------|----------|
| Mandatory/Shut  | Iz/ks    |
| Proper          | fk       |
| Down            | lk       |
| Use/Procedure   | as/mp    |
| Briefly         | mn       |
| Race/The/Ground | Iw/ad/fa |
| Common          | zs       |

**19. उत्तर: E**

$A \geq T > G; S < J < E \leq G; S > Q = I$

**निष्कर्ष:**

- I)  $A > I$  ( $A \geq T > G \geq E > J > S > Q = I$ ) -> सत्य**
- II)  $Q < E$  ( $E > J > S > Q$ ) -> सत्य**  
इसलिए, विकल्प e सही है

**20. उत्तर: A**

$Y \geq F > J > U; B < R \leq F < K; B \geq W = D$

**निष्कर्ष:**

- I)  $D < R$  ( $R > B \geq W = D$ ) -> सत्य**
- II)  $K \leq Y$  ( $Y \geq F < K$ ) -> असत्य**  
अतः विकल्प a सही है

**21. उत्तर: D**

- 5 4 8 3 7 2 6 8 9
- 3 5 9 1 5 3 7 9 7
- 3, 5, 9 और 7

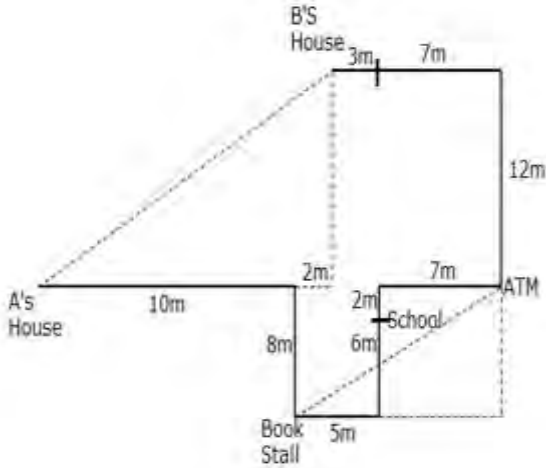
अतः विकल्प d सही है

**निर्देश (22-24):**

**22. उत्तर: C**

**23. उत्तर: E**

**24. उत्तर: D**



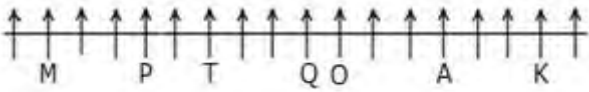
**निर्देश (25-27):**

**25. उत्तर: D**

**26. उत्तर: E**

**27. उत्तर: D**

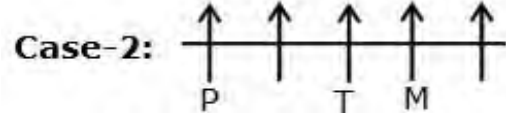
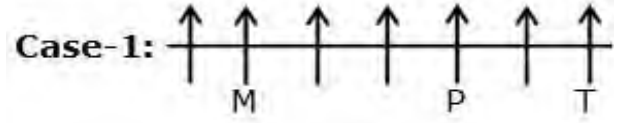
**अंतिम व्यवस्था**



हमारे पास है,

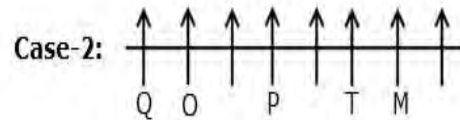
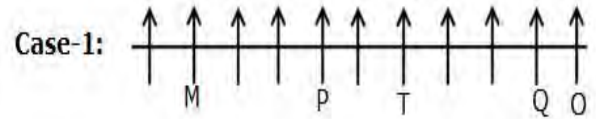
- P और M के मध्य केवल दो व्यक्ति बैठे हैं, जो पंक्ति के किसी एक छोर से दूसरे स्थान पर बैठा है।
- T, P के दायें से दूसरे स्थान पर बैठा है।

उपरोक्त स्थिति से, दो संभावनाएं हैं



हमारे पास फिर से है,

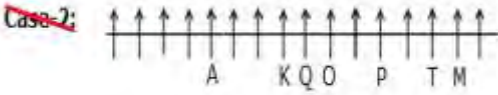
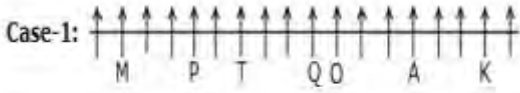
- M और T के बीच बैठे व्यक्तियों की संख्या, P और O के बीच बैठे व्यक्तियों की संख्या से एक कम है।
- Q, O के तत्काल बायें बैठा है।



हमारे पास फिर से है,

- जितने व्यक्ति T और Q के बीच बैठे हैं उतने ही व्यक्ति O और A के मध्य बैठे हैं, जो किसी एक छोर से पांचवें स्थान पर बैठा है।
- K, A के दायें से तीसरे स्थान पर बैठा है और Q के आसन्न नहीं बैठा है।

तो केस 2 समाप्त हो जाता है, इसलिए केस -1 अंतिम व्यवस्था दिखाता है



| Floor | Person | Country |
|-------|--------|---------|
| 7     | R      | India   |
| 6     | Q      | Spain   |
| 5     | N      | Korea   |
| 4     | P      | Russia  |
| 3     | M      | USA     |
| 2     | O      | Japan   |
| 1     | S      | China   |

निर्देश (28-30):

28. उत्तर: C

29. उत्तर: C

30. उत्तर: B

| रैंक | इमारत | मंजिलों |
|------|-------|---------|
| 1    | Z     |         |
| 2    | Y     | 29      |
| 3    | W     |         |
| 4    | X     |         |
| 5    | U     | 22      |
| 6    | V     |         |

निर्देश (31-35):

31. उत्तर: C

32. उत्तर: D

33. उत्तर: B

34. उत्तर: A

35. उत्तर: D

1. O एक सम संख्या वाली मंजिल पर रहता है और कोरिया से संबंधित व्यक्ति से तीन मंजिल नीचे रहता है। P उस व्यक्ति के तत्काल नीचे रहता है जो कोरिया से संबंधित है और उस व्यक्ति से दो मंजिल ऊपर है जो जापान से संबंधित है।

उपरोक्त स्थिति से, दो संभावनाएं हैं।

|       | Case 1 |         | Case 2 |         |
|-------|--------|---------|--------|---------|
| Floor | Person | Country | Person | Country |
| 7     |        | Korea   |        |         |
| 6     | P      |         |        |         |
| 5     |        |         |        | Korea   |
| 4     | O      | Japan   | P      |         |
| 3     |        |         |        |         |
| 2     |        |         | O      | Japan   |
| 1     |        |         |        |         |

2. P के ऊपर मंजिलों की संख्या, रुस से संबंधित व्यक्ति के नीचे मंजिलों की संख्या के समान है। R उस व्यक्ति से तीन मंजिल ऊपर रहता है जो रुस से संबंधित है, जो M के तत्काल ऊपर रहता है।



|       | Case 1 |         | Case 2 |         |
|-------|--------|---------|--------|---------|
| Floor | Person | Country | Person | Country |
| 7     |        | Korea   | R      |         |
| 6     | P      |         |        |         |
| 5     | R      |         |        | Korea   |
| 4     | O      | Japan   | P      | Russia  |
| 3     |        |         | M      |         |
| 2     |        | Russia  | O      | Japan   |
| 1     | M      |         |        |         |

3. वह व्यक्ति जो स्पेन से संबंधित है, उस व्यक्ति के तत्काल नीचे रहता है जो भारत से संबंधित है और N के तत्काल ऊपर रहता है। S न तो स्पेन से और न ही यूएसए से संबंधित है। इसलिए, केस 1 समाप्त हो जाता है। तो केस 2 अंतिम व्यवस्था दिखाता है

|       | Case 1 |         | Case 2 |         |
|-------|--------|---------|--------|---------|
| Floor | Person | Country | Person | Country |
| 7     |        | Korea   | R      | India   |
| 6     | P      | India   | Q      | Spain   |
| 5     | R      | Spain   | N      | Korea   |
| 4     | O      | Japan   | P      | Russia  |
| 3     |        |         | M      | USA     |
| 2     |        | Russia  | O      | Japan   |
| 1     | M      |         | S      | China   |

**निर्देश (36-40):**

**36. उत्तर: B**

**37. उत्तर: E**

**38. उत्तर: D** (दिए गए विकल्पों में, विकल्प D को छोड़कर, दोनों व्यक्तियों के बीच केवल दो व्यक्तियों को पदांकित किया गया है)

**39. उत्तर: B**

**40. उत्तर: E**

**अंतिम व्यवस्था:**

| पदनाम            | व्यक्ति |
|------------------|---------|
| निदेशक           | N       |
| प्रधानाचार्य     | J       |
| उप-प्रधानाचार्य  | M       |
| लेखाकार          | K       |
| परामर्शदाता      | P       |
| शिक्षक           | L       |
| पुस्तकालयाध्यक्ष | O       |
| एसपीएल           | I       |

हमारे पास है,

- O और M के बीच केवल तीन व्यक्ति पदांकित हैं, जो लेखाकार से वरिष्ठ है।
- केवल चार व्यक्ति K से कनिष्ठ हैं।

उपरोक्त शर्तों से, हमारे पास तीन संभावनाएं हैं:

| पदनाम            | केस-1 | केस-2 | केस-3 |
|------------------|-------|-------|-------|
| निदेशक           |       |       | M     |
| प्रधानाचार्य     |       | M     |       |
| उप-प्रधानाचार्य  | M     |       |       |
| लेखाकार          | K     | K     | K     |
| परामर्शदाता      |       |       | O     |
| शिक्षक           |       | O     |       |
| पुस्तकालयाध्यक्ष | O     |       |       |
| एसपीएल           |       |       |       |

हमारे पास फिर से है,

- P, M से कनिष्ठ है और L से तत्काल वरिष्ठ है।
- I और N के बीच दो से अधिक व्यक्ति पदांकित हैं, जो J से वरिष्ठ है।
- न तो L और न ही J पुस्तकालयाध्यक्ष और उप-प्रधानाचार्य हैं। (इस शर्त को लागू करने पर केस 2 और 3 समाप्त हो जाता है)

| Designations   | Case-1 | Case-2 | Case-3 |
|----------------|--------|--------|--------|
| Director       | N      | N      | M      |
| Principal      | J      | M      | N      |
| Vice-principal | M      | J      | J      |
| Accountant     | K      | K      | K      |
| Counselor      | P      | I      | O      |
| Teacher        | L      | O      | I      |
| Librarian      | O      | P      | P      |
| SPL            | I      | L      | L      |

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Or Scan the QR Code to Get the Detailed Video Solutions



**41. उत्तर: E**

$$41 + 1^3 = 42$$

$$42 + 2^3 = 50$$

$$50 + 3^3 = 77$$

$$77 + 4^3 = 141$$

$$141 + 5^3 = 266$$

**42. उत्तर: A**

$$72 + 13 * 1 = 85$$

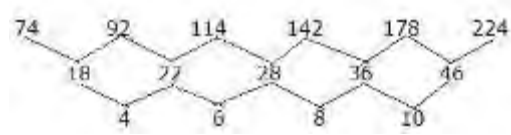
$$85 - 13 * 2 = 59$$

$$59 + 13 * 3 = 98$$

$$98 - 13 * 4 = 46$$

$$46 + 13 * 5 = 111$$

**43. उत्तर: A**



**44. उत्तर: A**

$$(7 * 2) - 3 = 11$$

$$(11 * 2) - 3 = 19$$

$$(19 * 2) - 3 = 35$$

$$(35 * 2) - 3 = 67$$

$$(67 * 2) - 3 = 131$$

$$(131 * 2) - 3 = 259$$

**45. उत्तर: A**

$$1 + 4^2 + 1 = 18$$

$$18 + 5^2 + 1 = 44$$

$$44 + 6^2 + 1 = 81$$

$$81 + 7^2 + 1 = 131$$

$$131 + 8^2 + 1 = 196$$

**निर्देश (46-50):**

**कंपनी A:**

$$\text{पुरुष कर्मचारियों की संख्या} = (240 + 100)/2 = 340/2 = 170$$

$$\text{महिला कर्मचारियों की संख्या} = 240 - 170 = 70$$

**कंपनी B:**

$$\text{पुरुष कर्मचारियों की संख्या} = (170 + 50)/2 = 220/2 = 110$$

$$\text{महिला कर्मचारियों की संख्या} = 170 - 110 = 60$$

**कंपनी C:**

$$\text{पुरुष कर्मचारियों की संख्या} = (210 + 50)/2 = 260/2 = 130$$

$$\text{महिला कर्मचारियों की संख्या} = 210 - 130 = 80$$

**कंपनी D:**

$$\text{पुरुष कर्मचारियों की संख्या} = (290 + 70)/2 = 360/2 = 180$$

$$\text{महिला कर्मचारियों की संख्या} = 290 - 180 = 110$$

**कंपनी E:**

$$\text{पुरुष कर्मचारियों की संख्या} = (150 + 30)/2 = 180/2 = 90$$

$$\text{महिला कर्मचारियों की संख्या} = 150 - 90 = 60$$

| कंपनी | काम करने वाले कर्मचारियों की कुल संख्या | काम करने वाले पुरुष कर्मचारियों की संख्या | काम करने वाली महिला कर्मचारियों की संख्या |
|-------|---|---|---|
| A     | 240                                     | 170                                       | 70  |
| B     | 170                                     | 110                                       | 60  |
| C     | 210                                     | 130                                       | 80  |
| D     | 290                                     | 180                                       | 110                                       |
| E     | 150                                     | 90  | 60  |

**46. उत्तर: B**

कंपनी F में काम करने वाली महिला कर्मचारियों की संख्या =  $80 * 5/4 = 100$

कंपनी F में काम करने वाले पुरुष कर्मचारियों की संख्या =  $240 * 50/100 = 120$

कंपनी F में काम करने वाले कर्मचारियों की कुल संख्या =  $100 + 120 = 220$

**47. उत्तर: A**

एकसाथ कंपनियों B और E में काम करने वाले कर्मचारियों की कुल संख्या =  $170 + 150 = 320$

आवश्यक अंतर =  $320 - 170 = 150$  अधिक

**48. उत्तर: D**

आवश्यक अनुपात =  $180:60 = 3:1$

**49. उत्तर: C**

**कंपनी C:**

2022 में काम करने वाले कर्मचारियों की कुल संख्या =  $210 + 120 = 330$

2022 में काम करने वाले पुरुष कर्मचारियों की संख्या =  $130 * 3/2 = 195$

2022 में काम करने वाली महिला कर्मचारियों की संख्या =  $330 - 195 = 135$

**50. उत्तर: B**

आवश्यक प्रतिशत =  $(90 - 60)/60 * 100 = 30/60 * 100 = 50\%$

**51. उत्तर: E**

$$x^2 + 22x + 120 = 0$$

$$x^2 + 10x + 12x + 120 = 0$$

$$x(x + 10) + 12(x + 10) = 0$$

$$x = -10, -12$$

$$y^2 + 18y + 80 = 0$$

$$y^2 + 10y + 8y + 80 = 0$$

$$y(y + 10) + 8(y + 10) = 0$$

$$y = -10, -8$$

$$x \leq y$$

**52. उत्तर: D**

$$x^2 + 4x - 60 = 0$$

$$x^2 + 10x - 6x - 60 = 0$$

$$x(x + 10) - 6(x + 10) = 0$$

$$x = -10, 6$$

$$y^2 - 19y + 84 = 0$$

$$y^2 - 12y - 7y + 84 = 0$$

$$y(y - 12) - 7(y - 12) = 0$$

$$y = 12, 7$$

$$x < y$$

**53. उत्तर: D**

$$5x^2 - 19x + 18 = 0$$

$$5x^2 - 10x - 9x + 18 = 0$$

$$5(x - 2) - 9(x - 2) = 0$$

$$x = 2, 9/5$$

$$2y^2 - 15y + 28 = 0$$

$$2y^2 - 8y - 7y + 28 = 0$$

$$2y(y - 4) - 7(y - 4) = 0$$

$$y = 7/2, 4$$

$$x < y$$

**54. उत्तर: B**

$$x^2 - 19x + 88 = 0$$

$$x^2 - 11x - 8x + 88 = 0$$

$$x(x - 11) - 8(x - 11) = 0$$

$$x = 8, 11$$

$$y^2 - 14y + 48 = 0$$

$$y^2 - 8y - 6y + 48 = 0$$

$$y(y - 8) - 6(y - 8) = 0$$

$$y = 8, 6$$

$$x \geq y$$

**55. उत्तर: C**

$$x^2 - 18x + 72 = 0$$

$$x^2 - 12x - 6x + 72 = 0$$

$$x(x - 12) - 6(x - 12) = 0$$

$$x = 12, 6$$

$$y^2 - 20y + 84 = 0$$

$$y^2 - 14y - 6y + 84 = 0$$

$$y(y - 14) - 6(y - 14) = 0$$

$$y = 6, 14$$

संबंध निर्धारित नहीं किया जा सकता है।

**56. उत्तर: B**

प्रश्न के अनुसार,

$$1000 * (100 + P)/100 - 900 * (100 + P + 10)/100 = 25$$

$$10 * (100 + P) - 9 * (110 + P) = 25$$

$$1000 + 10P - 990 - 9P = 25$$

$$10 + P = 25$$

$$P = 25 - 10 = 15$$

### 57. उत्तर: E

$$1/x + 1/(x + 10) = 1/12$$

$$(2x + 10) * 12 = x * (x + 10)$$

$$24x + 120 = x^2 + 10x$$

$$x^2 - 14x - 120 = 0$$

$$x^2 - 20x + 6x - 120 = 0$$

$$x(x - 20) + 6(x - 20) = 0$$

$$x = 20, -6 \text{ (ऋणात्मक मान पर ध्यान न दें)}$$

$$C \text{ अकेले कार्य पूरा करता है} = 20 + 4 = \text{दिन}$$

$$B + C = 1/30 + 1/24$$

$$B + C = 9/120 = 3/40$$

$$\text{आवश्यक समय} = 13(1/3) \text{ दिन}$$

### 58. उत्तर: A

$$Q \text{ की वर्तमान आयु} = 4x$$

$$R \text{ की वर्तमान आयु} = 3x$$

$$3/4 * (P + 4) = 50/100 * (4x + 4)$$

$$3/2 * (P + 4) = 4x + 4$$

$$3 * (P + 4) = 8x + 8$$

$$P + 4 = (8x + 8)/3$$

$$P = (8x + 8)/3 - 4 = (8x + 8 - 12)/3 =$$

$$(8x - 4)/3$$

$$(8x - 4)/3 - 2 + 3x - 3 = 22$$

$$(8x - 4)/3 + 3x = 27$$

$$(8x - 4 + 9x)/3 = 27$$

$$17x - 4 = 81$$

$$x = 85/17 = 5$$

$$Q \text{ की वर्तमान आयु} = 4 * 5 = 20 \text{ वर्ष}$$

### 59. उत्तर: D

$$\text{माना धारा की गति} = x \text{ किमी/घंटा}$$

$$\text{और स्थिर जल में नाव की गति} = 4x \text{ किमी/घंटा}$$

$$\text{नाव की धारा के अनुकूल गति} = 288/8 = 36 \text{ किमी/घंटा}$$

$$4x - x = 36$$

$$3x = 36$$

$$x = 12$$

$$\text{स्थिर जल में नाव की गति} = 4 * 12 = 48 \text{ किमी/घंटा}$$

$$\text{आवश्यक समय} = 144/48 = 3 \text{ घंटे}$$

### 60. उत्तर: C

$$\text{नाव की धारा के अनुकूल गति} = u \text{ किमी/घंटा}$$

$$\text{नाव की धारा के प्रतिकूल गति} = v \text{ किमी/घंटा}$$

$$u + v = 3x$$

$$u - v = x$$

$$\text{स्थिर जल में नाव की गति} = 3x/2 = 1.5x$$

$$\text{धारा की गति} = x/2 = 0.5x$$

$$140/(1.5x + 0.5x) + 140/(1.5x - 0.5x) = 15$$

$$140/2x + 140/x = 15$$

$$(140 + 280)/2x = 15$$

$$420/2x = 15$$

$$210/x = 15$$

$$x = 14 \text{ किमी/घंटा}$$

$$\text{नाव की धारा के अनुकूल गति} = (1.5 * 14) + 0.5 * 14 = 21 + 7 = 28 \text{ किमी/घंटा}$$

### निर्देश (61-65):

पुस्तकालय A में कॉमिक पुस्तकों की संख्या = 150

पुस्तकालय A में फैंटसी पुस्तकों की संख्या =  $150 * 100/150 = 100$

पुस्तकालय A में कॉमिक और फैंटसी पुस्तकों की कुल संख्या =  $150 + 100 = 250$

पुस्तकालय D में कॉमिक और फैंटसी पुस्तकों की कुल संख्या =  $250 * 240/100 = 600$

पुस्तकालय D में कॉमिक पुस्तकों की संख्या =  $600 * 7/(7 + 5) = 600 * 7/12 = 350$

पुस्तकालय D में फैंटसी पुस्तकों की संख्या =  $600 - 350 = 250$

पुस्तकालय C में फैंटसी पुस्तकों की संख्या =  $350 * 4/5 = 280$

पुस्तकालय C में कॉमिक और फैंटसी पुस्तकों की कुल संख्या =  $220 * 2 = 440$

पुस्तकालय C में कॉमिक पुस्तकों की संख्या =  $440 - 280 = 160$

पुस्तकालय B में कॉमिक पुस्तकों की संख्या =  $160 * 150/100 = 240$

पुस्तकालय B में फैंटसी पुस्तकों की संख्या =  $160 * 100/100 = 320$

पुस्तकालय B में कॉमिक और फैंटसी पुस्तकों की कुल संख्या =  $240 + 320 = 560$

| पुस्तकालय | कॉमिक पुस्तकों की संख्या | फैंटसी पुस्तकों की संख्या | कॉमिक और फैंटसी पुस्तकों की कुल संख्या |
|-----------|--------------------------|---------------------------|--|
| A         | 150                      | 100                       | 250                                    |
| B         | 240                      | 320                       | 560                                    |
| C         | 160                      | 280                       | 440                                    |
| D         | 350                      | 250                       | 600                                    |

### 61. उत्तर: A

$$\text{आवश्यक अंतर} = 560 - 350 = 210$$

### 62. उत्तर: C

$$\text{आवश्यक प्रतिशत} = (240 - 150)/150 * 100 = 90/150 * 100 = 60\% \text{ अधिक}$$

### 63. उत्तर: B

$$\text{आवश्यक औसत} = (160 + 320)/2 = 480/2 = 240$$

### 64. उत्तर: A

पुस्तकालय E में कॉमिक और फैंटसी पुस्तकों की कुल संख्या =  $440 + 100 = 540$

पुस्तकालय E में फैंटसी पुस्तकों की संख्या =  $280 * 3/4 = 210$

पुस्तकालय E में कॉमिक पुस्तकों की संख्या =  $540 - 210 = 330$

### 65. उत्तर: D

$$\text{आवश्यक अनुपात} = 250:250 = 1:1$$

### 66. उत्तर: D

$$(21.18 * 8.99) + \sqrt{1295} * 14.14 = ? + 173.09$$

$$189 + 504 = ? + 173$$

$$? = 520$$

**67. उत्तर: A**

$$196.13 \div 13.69 + 81.13 \div 2.99^3 = ? - 45.35$$

$$196 \div 14 + 81 \div 3^3 = ? - 45$$

$$14 + 3 = ? - 45$$

$$? = 62$$

**68. उत्तर: C**

$$181.99 \times 13.01 \div 6.99 \times 49 = 7^? \times 2$$

$$14 \times 7^{-1} \times 7^2 = 7^? \times 2$$

$$2 = ?$$

**69. उत्तर: D**

$$? \approx (270/3) - 11 \times 12 + \sqrt[3]{729}$$

$$= 90 - 132 + 9$$

$$= -33$$

**70. उत्तर: C**

$$599.89 \text{ का } 45.01\% \div [500.21 \text{ का } (24.89 + 15.32)\%] = ? \div 40.11$$

$$600 \text{ का } 45\% \div [500 \text{ का } (25+ 15)\%] = ?$$

$$\div 40$$

$$45 \times 6 \div (500 \text{ का } 40\%) = ? / 40$$

$$270 \times 40 / 200 = 54$$

**निर्देश (71-75):**

दुकान A द्वारा बेचे गए हैंड वाश की कुल संख्या =  $4500 \times 12/100 = 540$

दुकान B द्वारा बेचे गए हैंड वाश की कुल संख्या =  $4500 \times 20/100 = 900$

दुकान C द्वारा बेचे गए हैंड वाश की कुल संख्या =  $4500 \times 30/100 = 1350$

दुकान D द्वारा बेचे गए हैंड वाश की कुल संख्या =  $4500 \times 22/100 = 990$

दुकान E द्वारा बेचे गए हैंड वाश की कुल संख्या =  $4500 \times 16/100 = 720$

**71. उत्तर: C**

दुकान F द्वारा बेचे गए हैंड वाश की कुल संख्या =  $900 \times 70/100 = 630$

आवश्यक योग =  $630 + 540 = 1170$

**72. उत्तर: A**

दुकान C द्वारा बेचे गए डब हैंड वाश की संख्या =  $1350 \times 4/(2 + 4 + 3) = 1350 \times 4/9 = 600$

दुकान C द्वारा निर्मित डब हैंड वाश की कुल संख्या =  $600 + 120 = 720$

**73. उत्तर: D**

दुकान A और E द्वारा बेचे गए हैंड वाश की कुल संख्या =  $540 + 720 = 1260$

आवश्यक अंतर =  $1260 - 900 = 360$

**74. उत्तर: C**

माना दुकान A द्वारा बेचे गए हिमालय हैंड वाश की संख्या =  $x$

तथा दुकान A द्वारा बेचे गए डेटॉल हैंड वाश की संख्या =  $x + 30$

तथा दुकान A द्वारा बेचे गए डब हैंड वाश की संख्या =  $x - 30$

$$x + 30 + x + x - 30 = 540$$

$$3x = 540$$

$$x = 180$$

दुकान A द्वारा बेचे गए डेटॉल हैंड वाश की संख्या =  $180 + 30 = 210$

दुकान A द्वारा बेचे गए डव हैंड वाश की संख्या =  $180 - 30 = 150$

आवश्यक अनुपात =  $210:150 = 7:5$

**75. उत्तर: B**

आवश्यक प्रतिशत =  $(990 - 720)/720 * 100 = 270/720 * 100 = 37.5\%$

**76. उत्तर: C**

A, B और C का लाभ अनुपात =  $x * 2:(x + 1000) * 2:(x - 2000) * 1$

$(2x + 2000)/(2x + 2x + 2000 + x - 2000) = 4500/10000$

$45x = 40x + 40000$

$x = 8000$

**77. उत्तर: B**

$(x+3)C_1 / (5+x+x+3+3)C_1 = 1/3$

$11 + 2x = 3x + 9$

$x = 2$

**78. उत्तर: C**

$28 * x + 4 * (x + 8) = 32 * 51$

$28x + 4x + 32 = 1632$

$32x = 1600$

$x = 50$  किग्रा

चार नए छात्रों का कुल वजन =  $4 * (50 + 8)$

=  $4 * 58 = 232$  किग्रा

**79. उत्तर: B**

चक्रवृद्धि ब्याज - साधारण ब्याज = 1500

$(X + 20000) * [(1 + 10/100)^2 - 1] - [X * 2 * 12 / 100] = 1500$

$(X + 20000) * [(110/100)^2 - 1] - (24X / 100) = 1500$

$(X + 20000) * [(121 - 100) / 100] - (24X / 100) = 1500$

$(X + 20000) * (21 / 100) - (24X / 100) = 1500$

$(21X / 100) + 4200 - (24X / 100) = 1500$

$(3X / 100) = 2700$

$X = 2700 * (100 / 3) = 90000$

**80. उत्तर: D**

परिणामी मिश्रण में दूध से पानी की मात्रा का अनुपात = 1:1

$(x + 100 + 100)/(x + x) = 1/1$

$x + 200 = 2x$

$x = 200$

बर्तन में शेष पानी की मात्रा =  $200 + 200 = 400$  लीटर



## Zero to Infinity

### **Importance of Zero to Infinity:**

Seating arrangement and Puzzles are the most important topics that need more practice for every **“Banking Aspirant”**. Here, we are providing the content for all topics in a monthly basis for regular practice. It consists of the questions from **“Basics to Hard level”** (Prelims–Mains level), also we add some extra notes in a detailed manner to avoid the confusions (confusing statement) in seating arrangement and puzzles, this will help you to get a crystal clear view of each and every topic. We are providing questions based on the recent exam analysis, so that you can be the **“Expert”** if you are practicing the complete questions provided by us.

### **Floor Puzzle**

Floor puzzle is one of the important topics that asked in bank exams. We bring you the most confusing statements with detailed explanation to get a clear view of the floor puzzle. So go through it once before solving practice questions.

### **Confusing Statement In Floor Puzzle:**

**Statement – 1:** B lives two floors above A.

### **The above statement implies the following possible statements:**

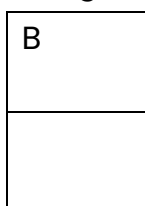
- Only one floor is between A and B

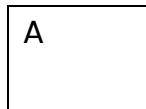
**Short Hint:** Subtract one from the number of floors according to the respective statements.

Two floors above  $\rightarrow 2-1=1$  floor is between A and B.

Three floors above  $\rightarrow 3-1=2$  floors are between A and B.

This is similar for the remaining cases.





**Statement – 1a:** B lives two floors below A.

**The above statement implies the following possible statements:**

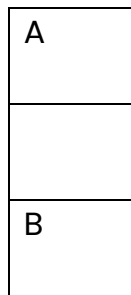
- Only one floor is between A and B

**Short Hint:** Subtract one from the number of floors according to the respective statements.

Two floors below  $\rightarrow 2-1=1$  floor is between A and B.

Three floors below  $\rightarrow 3-1=2$  floors are between A and B.

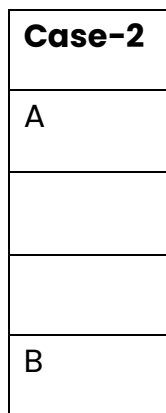
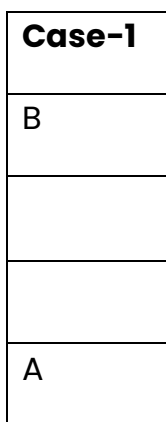
This is similar for the remaining cases.



**Statement – 2:** B lives three floors away from A.

**The above statement implies the following possible statements:**

- Only two floors are between A and B.
- B lives three floors above A or B lives three floors below A.



**Statement – 3:** At-least two persons live above A.

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**The above statement implies the following possible statements:**

- Two persons live above A
- Three/four/five/six persons live above A.

**Note:** The number of persons may be varied based on the total number of persons living on the floor.

**Short Hint:** At least= Minimum, so as per the statement minimum of two persons live above A.

| Case-1 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      | A      |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      |        |

| Case-2 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      | A      |
| 3      |        |
| 2      |        |
| 1      |        |

| Case-3 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      | A      |
| 2      |        |
| 1      |        |

| Case-4 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      | A      |
| 1      |        |

| Case-5 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      | A      |

**Statement – 4:** At-most three person lives below A.

**The above statement implies the following possible statements:**

- No person lives below A.
- One/Two/Three persons live below A.

**Short Hint:** At most= Maximum, so as per the statement maximum of three persons live below A.

| Case-1 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      | A      |

| Case-2 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      | A      |
| 1      |        |

| Case-3 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      | A      |
| 2      |        |
| 1      |        |

| Case-4 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      | A      |
| 3      |        |
| 2      |        |
| 1      |        |

**Statement – 5:** Not more than two persons live above A.

**The above statement implies the following possible statements:**

- No person lives above A.
- One/Two persons live above A.

**Short Hint:** Not more than=At most=Maximum, so as per the statement maximum two persons live above A.

| Case-1 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      | A      |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      |        |

| Case-2 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      | A      |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      |        |

| Case-3 |        |
|--------|--------|
| Floor  | Person |
| 7      | A      |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      |        |

**Statement – 6:** A lives below B.

- Here, it is mentioned A lives below B, which means A lives somewhere below B.

| Case-1 |        |
|--------|--------|
| Floor  | Person |
| 7      | B      |
| 6      | A      |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      |        |

| Case-2 |        |
|--------|--------|
| Floor  | Person |
| 7      | B      |
| 6      |        |
| 5      | A      |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      |        |

| Case-3 |        |
|--------|--------|
| Floor  | Person |
| 7      | B      |
| 6      |        |
| 5      |        |
| 4      | A      |
| 3      |        |
| 2      |        |
| 1      |        |

| Case-4 |        |
|--------|--------|
| Floor  | Person |
| 7      | B      |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      | A      |
| 2      |        |
| 1      |        |

| Case-5 |        |
|--------|--------|
| Floor  | Person |
| 7      | B      |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      | A      |
| 1      |        |

| Case-6 |        |
|--------|--------|
| Floor  | Person |
| 7      | B      |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      | A      |

**Statement – 6a:** A lives above B.

- Here, it is mentioned A lives above B, which means A lives somewhere above B.

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| Case-1 |        | Case-2 |        | Case-3 |        | Case-4 |        | Case-5 |        | Case-6 |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Floor  | Person | Floor  | Person | Floor  | Person | Floor  | Person | Floor  | Person | Floor  | Person |
| 7      |        | 7      |        | 7      |        | 7      |        | 7      |        | 7      | A      |
| 6      |        | 6      |        | 6      |        | 6      |        | 6      | A      | 6      |        |
| 5      |        | 5      |        | 5      |        | 5      | A      | 5      |        | 5      |        |
| 4      |        | 4      |        | 4      | A      | 4      |        | 4      |        | 4      |        |
| 3      |        | 3      | A      | 3      |        | 3      |        | 3      |        | 3      |        |
| 2      | A      | 2      |        | 2      |        | 2      |        | 2      |        | 2      |        |
| 1      | B      | 1      | B      | 1      | B      | 1      | B      | 1      | B      | 1      | B      |

**Statement – 7:** C lives between A and B.

- Here, it is mentioned C lives between A and B, which means C may live any floor between A and B.

**Short Hint:** Between= In the space of middle two persons, So C may live at a gap of None/One/Two/Three persons between A and B, based on the number of persons living on the floor.

| Case-1 |        | Case-2 |        | Case-3 |        | Case-4 |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| Floor  | Person | Floor  | Person | Floor  | Person | Floor  | Person |
| 7      |        | 7      |        | 7      |        | 7      |        |
| 6      | B      | 6      | B      | 6      | B      | 6      | B      |
| 5      |        | 5      |        | 5      |        | 5      | C      |
| 4      |        | 4      |        | 4      | C      | 4      |        |
| 3      |        | 3      | C      | 3      |        | 3      |        |
| 2      | C      | 2      |        | 2      |        | 2      |        |
| 1      | A      | 1      | A      | 1      | A      | 1      | A      |

**Statement – 8:** C lives exactly between A and B.

Here, it is mentioned C lives exactly between A and B, which means there must be equal number of persons living between C and B and C and A.

| Case-1 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      | B      |
| 2      | C      |
| 1      | A      |

| Case-2 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      | B      |
| 4      |        |
| 3      | C      |
| 2      |        |
| 1      | A      |

| Case-3 |        |
|--------|--------|
| Floor  | Person |
| 7      | B      |
| 6      |        |
| 5      |        |
| 4      | C      |
| 3      |        |
| 2      |        |
| 1      | A      |

**Statement – 9:**As many floors above A as below B.

- Here, the number of floors above A is equal to the number of floors below B. It can be None/one/two/three/four/five floors above A's floor so the same number of floors below B.

**Short Hint:** Floors above A = Floors below B

| Case-1 |        |
|--------|--------|
| Floor  | Person |
| 7      | B      |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      | A      |

| Case-2 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      | B      |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      | A      |
| 1      |        |

| Case-3 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      | B      |
| 4      |        |
| 3      | A      |
| 2      |        |
| 1      |        |

| Case-4 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      | A      |
| 4      |        |
| 3      | B      |
| 2      |        |
| 1      |        |

| Case-5 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      | A      |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      | B      |
| 1      |        |

| Case-6 |        |
|--------|--------|
| Floor  | Person |
| 7      | A      |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      | B      |

**Statement – 10:**As many persons live between A and C as between C and B.

- Here, the number of persons living between A and C should be equal to the number of persons living between C and B. It can be none/one/two/three persons living between A and C so the same number of persons living between C and B.

**Short Hint:**

I. Persons live between A and C = Persons live between C and B.

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II. C must live exactly between A and B.

| Case-1 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      | B      |
| 2      | C      |
| 1      | A      |

| Case-2 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      | B      |
| 4      |        |
| 3      | C      |
| 2      |        |
| 1      | A      |

| Case-3 |        |
|--------|--------|
| Floor  | Person |
| 7      | B      |
| 6      |        |
| 5      |        |
| 4      | C      |
| 3      |        |
| 2      |        |
| 1      | A      |

**Statement – II:** The number of persons living between A and B is one less than the number of persons living between B and C.

**Short Hint:** Persons live between A and B = (Persons live between B and C) – 1

| Case-1 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      | C      |
| 3      |        |
| 2      | B      |
| 1      | A      |

| Case-2 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      | C      |
| 5      |        |
| 4      |        |
| 3      | B      |
| 2      |        |
| 1      | A      |

| Case-3 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      | C      |
| 3      | A      |
| 2      | B      |
| 1      |        |

| Case-4 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      | C      |
| 5      | A      |
| 4      |        |
| 3      | B      |
| 2      |        |
| 1      |        |

**Note:** This is similar for the number of persons living between A and B is **two/three less** than the number of persons living between B and C.

Persons live between A and B = (Persons live between B and C) – 2

Persons live between A and B = (Persons live between B and C) – 3

**Statement – 12:** The number of persons living between B and C is one more than the number of persons living between A and B.

**Short Hint:** Persons live between B and C = (Persons live between A and B) +1

| Case-1 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      | C      |
| 5      |        |
| 4      |        |
| 3      | B      |
| 2      |        |
| 1      | A      |

| Case-2 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      | C      |
| 3      |        |
| 2      | B      |
| 1      | A      |

| Case-3 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      | C      |
| 5      | A      |
| 4      |        |
| 3      | B      |
| 2      |        |
| 1      |        |

| Case-4 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      | C      |
| 2      | A      |
| 1      | B      |

**Note:** This is similar for the number of persons living between A and B is **two/three more** than the number of persons living between B and C.

Persons live between A and B = (Persons live between B and C) +2

Persons live between A and B = (Persons live between B and C) +3

**Statement – 13a:** Even number of persons live above A.

**The above statement implies the following possible statement:**

- Two/Four/six persons live above A.

| Case-1 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      | A      |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      |        |

| Case-2 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      | A      |
| 2      |        |
| 1      |        |

| Case-3 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      | A      |

**Statement – 13b:** Odd number of persons living below A.

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**The above statement implies the following possible statement:**

- One/Three/Five persons live below A.

| Case-1 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      | A      |
| 3      |        |
| 2      |        |
| 1      |        |

| Case-2 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      |        |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      | A      |
| 1      |        |

| Case-3 |        |
|--------|--------|
| Floor  | Person |
| 7      |        |
| 6      | A      |
| 5      |        |
| 4      |        |
| 3      |        |
| 2      |        |
| 1      |        |

**Statement – 14:** There are two persons live between A and B.

**The above statement implies the following possible statement:**

- B lives three floors above A or B lives three floors below A.

| Case-1 |
|--------|
| A      |
|        |
|        |
| B      |

| Case-2 |
|--------|
| B      |
|        |
|        |
| A      |

**Statement – 15:** Only one person lives between A and B. (If one of the floors is vacant).

**The above statement implies the following possible statements:**

- B lives two floors above A.
- B lives three floors above A. (Between A and B one of the floors is vacant)

(If six persons living in the seven-storey building)

| Case-1 |        | Case-2 |        | Case-3 |        | Case-4 |        | Case-5 |        | Case-6 |        |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Floor  | Person | Floor  | Person | Floor  | Person | Floor  | Person | Floor  | Person | Floor  | Person |
| 7      |        | 7      |        | 7      |        | 7      |        | 7      |        | 7      |        |
| 6      |        | 6      |        | 6      |        | 6      |        | 6      |        | 6      |        |
| 5      |        | 5      |        | 5      |        | 5      |        | 5      |        | 5      |        |
| 4      |        | 4      | B      | 4      | B      | 4      |        | 4      | A      | 4      | A      |
| 3      | B      | 3      |        | 3      | vacant | 3      | A      | 3      | vacant | 3      |        |
| 2      |        | 2      | vacant | 2      |        | 2      |        | 2      |        | 2      | Vacant |
| 1      | A      | 1      | A      | 1      | A      | 1      | B      | 1      | B      | 1      | B      |

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## Practice Questions

### Set 1 (Clerk Pre)

**Directions (1-5): Study the following information carefully and answer the given below. Easy-110 sec**

Eight persons - B, C, D, E, F, G, H and I are living on the different floors of the eight storey building, where the lowermost floor is numbered 1 and the topmost floor is numbered 8. No two persons live on the same floor.

Only four persons live between D and H, who lives above D. E lives immediately above H. Only two persons live between E and F. As many floors above F as below B. Only one person lives between B and C. I lives above G, who doesn't live on the adjacent floor of C.

**1. Who among the following person lives on the eighth floor?**

- a) I
- b) The one who lives two floors above C
- c) H
- d) The one who lives immediately above G
- e) B

**2. Who among the following person lives between G and C?**

I. F

II. B

III. H

a) Only I and II

b) Only I and III

c) Only II

d) Only III

e) None of these

**3. If all the persons are arranged in alphabetical order from bottom to top, then how many persons remain unchanged in their position?**

a) One

b) Two

c) Three

d) More than three

e) No one

**4. On which of the following floor does I live?**

a) Fourth

b) Fifth

c) Second

d) Eighth

e) Third

**5. Four of the following five are alike in a certain way based on the given**

arrangement and thus form a group. Which one of the following does not belong to the group?

- a) H
- b) I

- c) B
- d) G
- e) F

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**Answer Key with Final Arrangement**

**Directions (1-5):**

- 1. Answer: B
- 2. Answer: A
- 3. Answer: B (Only F and H)
- 4. Answer: E
- 5. Answer: c (All of them live on the odd numbered floors except option c)

**Final arrangement:**

| Floor | Persons |
|-------|---------|
| 8     | E       |
| 7     | H       |
| 6     | C       |
| 5     | F       |
| 4     | B       |
| 3     | I       |
| 2     | D       |
| 1     | G       |

## Practice Questions

### Set 2 (PO Pre)

**Directions (6-10):** Study the following information carefully and answer the questions given below.

Nine persons - L, M, N, O, P, Q, R, S and T are staying on the different floors of the nine-storey building, where the lowermost floor is numbered 1 and the floor immediately above it is numbered 2 and so on. Only one person stays on each floor.

P stays on an odd numbered floor but neither on the topmost floor nor on the lowermost floor. Only two persons stay between P and L. M stays two floors above L. Q stays immediately below M. As many floors between Q and R as between R and S. N stays above O. As many floors above N as below O.

**6) Who among the following person stays on the fifth floor?**

- a) The one who stays immediately above L
- b) S
- c) The one who stays immediately below R
- d) P
- e) N

**7) Which of the following statements is/are true based on the given information?**

- a) L stays on the fourth floor
- b) N stays three floors above Q
- c) R stays above S
- d) All are true
- e) None is true

**8) Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?**

- a) N-O
- b) P-R
- c) T-S
- d) M-L
- e) M-R

**9) How many persons are staying between T and O?**

- a) Four
- b) Five
- c) Six
- d) Seven
- e) None

**10) As many persons stay between N and Q as between S and \_\_\_\_\_.**

- a) Q
- b) R
- c) O
- d) M
- e) L

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**Answer Key with Final Arrangement**

**Directions (6-10):**

**6. Answer: A**

**7. Answer: D**

**8. Answer: E** (As many floors above the first person as below the second person, except option e)

**9. Answer: C**

**10. Answer: E**

**Final arrangement:**

| Floor | Person |
|-------|--------|
| 9     | T      |
| 8     | N      |
| 7     | P      |
| 6     | M      |
| 5     | Q      |
| 4     | L      |
| 3     | R      |
| 2     | O      |
| 1     | S      |

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## Practice Questions

### Set 3 (PO Pre)

**Directions (11-15): Study the following information carefully and answer the questions given below.**

Seven persons – M, N, O, P, Q, R and S are living on the different floors of a seven-storey building where the lowermost floor is numbered 1, the floor immediately above it is numbered 2 and so on. Each person is from a different country viz. China, India, Japan, Korea, Russia, Spain and USA. No two persons live on the same floor.

O lives on an even-numbered floor and three floors below the one who is from Korea. P lives immediately below the one who is from Korea and two floors above the one who is from Japan. As many floors above P as below the one who is from Russia. R lives three floors above the one who is from Russia, who lives immediately above M. The one who is from Spain lives immediately below the one who is from India and immediately above N. S is neither from Spain nor from USA.

**11. Who among the following person is from Spain?**

- a) The one who lives immediately below P
- b) R
- c) The one who lives on 6<sup>th</sup> floor
- d) S
- e) N

**12. On which of the following floor does S live?**

- a) Floor 6
- b) Floor 3
- c) Floor 4
- d) Floor 1
- e) Floor 2

**13. How many floors are there between N and the one who is from Japan?**

- a) One
- b) Two
- c) Three
- d) More than three
- e) None

**14. If all the persons are living in alphabetical order from bottom to top, then how many persons remain unchanged in their position?**

- a) One

- b) Two
- c) Three
- d) More than three
- e) None

- b) India
- c) Korea
- d) USA
- e) None of these

**15. M is from which of the following country?**

- a) China

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**Answer Key with Final Arrangement**

**Directions (11-15):**

- 11. Answer: C**
- 12. Answer: D**
- 13. Answer: B**
- 14. Answer: A**
- 15. Answer: D**

**Final arrangement:**

| Floor | Person | Country |
|-------|--------|---------|
| 7     | R      | India   |
| 6     | Q      | Spain   |
| 5     | N      | Korea   |
| 4     | P      | Russia  |
| 3     | M      | USA     |
| 2     | O      | Japan   |
| 1     | S      | China   |

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## Practice Questions

### Set 4 (PO Pre)

**Directions (16-20):** Study the following information carefully and answer the questions given below.

**Moderate to hard-210 sec**

Seven persons - B, F, H, K, N, R and U are living on the different floors of the seven-storey building where the lowermost floor is numbered 1 and the floor immediately above it is numbered 2 and so on. All of them cook different curries viz. Fish, Prawn, Crab, Dhal, Mutton, Chicken and Paneer. No two persons live on the same floor.

H lives on an even-numbered floor. Only two persons live between H and the one who cooks Chicken. B lives two floors above the one who cooks chicken. Only two persons live between B and the one who cooks Crab. N lives immediately below the one who cooks crab. As many persons live above N as below the one who cooks Paneer. K cooks fish and lives on the adjacent floor of U. Neither U nor R cooks crab. Only one person lives between K and the one who cooks Dhal. Neither B nor N cooks Mutton.

**16. N lives on \_\_\_ floor and cooks \_\_\_ curry.**

- a) 2<sup>nd</sup>, Mutton
- b) 5<sup>th</sup>, Prawn
- c) 3<sup>rd</sup>, Chicken
- d) 1<sup>st</sup>, Paneer
- e) 6<sup>th</sup>, Dhal

**17. Who among the following person lives immediately above the one who cooks crab?**

- a) U
- b) H
- c) B
- d) R
- e) K

**18. What is the position of B with respect to the one who cooks Prawn?**

- a) Two floors below
- b) Three floors above
- c) Three floors below
- d) Four floors above
- e) Immediately below

**19. If R is related to B and N is related to U in a certain way, then who among the following person is related to the one who cooks Fish?**

- a) B
- b) H
- c) F
- d) K
- e) U

- a) One
- b) Three
- c) Four
- d) Two
- e) No one

**20. How many persons live between K and the one who cooks Paneer?**

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**Answer Key with Final Arrangement**

**Directions (16–20):**

**16. Answer: B**

**17. Answer: D**

**18. Answer: A**

**19. Answer: C**

**20. Answer: E**

**Final arrangement**

| Floor | Person | Curry   |
|-------|--------|---------|
| 7     | R      | Mutton  |
| 6     | F      | Crab    |
| 5     | N      | Prawn   |
| 4     | H      | Dhal    |
| 3     | B      | Paneer  |
| 2     | K      | Fish    |
| 1     | U      | Chicken |

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## Practice Questions

### Set 5 (PO Pre)

**Directions (21–25):** Study the following information carefully and answer the questions given below.

Eight persons – A, C, F, H, N, P, R and U are living on the different floors of the nine-storey building, where the lowermost floor is numbered 1 and the floor immediately above it is numbered 2 and so on. One of the floors is vacant.

C lives on an even numbered floor. Only one person lives between C and A, who lives above C. P lives immediately below the floor of A and lives adjacent to the vacant floor. N lives two floors above U. The number of floors above N is one more than the number of floors below H. Both H and U do not live on consecutive floors. Only one person lives between F and R, who lives below U.

**21. Which of the following floor is vacant?**

- a) Third floor
- b) Seventh floor
- c) Fifth floor
- d) Fourth floor
- e) None of these

**22. Who among the following person lives two floors below H?**

- A) C
- b) A
- c) P
- d) F
- e) R

**23. As many floors above P as below\_\_\_\_\_.**

- a) A
- b) R
- c) U
- d) Vacant floor
- e) C

**24. Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following does not belong to the group?**

- a) H
- b) A
- c) R
- d) F
- e) P

**25. Which of the following statement(s) is/are true based on the given information?**

- I. H lives adjacent to the vacant floor  
 II. C lives three floors above U  
 III. Only two floors are below F
- a) Only I  
 b) Only II  
 c) Only I and II  
 d) Only II and III  
 e) Only III

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**Answer Key with Final Arrangement**

**Directions (21–25):**

21. Answer: B  
 22. Answer: D  
 23. Answer: C  
 24. Answer: E (All the person lives on an odd numbered floor except option e)  
 25. Answer: E

**Final arrangement**

| Floors | Persons |
|--------|---------|
| 9      | A       |
| 8      | P       |
| 7      | Vacant  |
| 6      | C       |
| 5      | H       |
| 4      | N       |
| 3      | F       |
| 2      | U       |
| 1      | R       |

## Practice Questions

### Set 6 (Clerk Mains)

**Directions (26–30):** Study the following information carefully and answer the questions given below.

Eleven persons – P, Q, R, S, T, U, V, W, X, Y, and Z are staying in an eleven-storey building, but not necessarily in the same order. The lowermost floor is numbered as 1 and the floor immediately above it is numbered as 2 and so on. The consecutive alphabetically named persons are not staying on the adjacent floors.

Only three persons stay between Z and S, who stays on an even numbered floor. Z doesn't stay above the sixth floor. T stays two floors above Y, who doesn't stay on the first floor. Both Y and S are not staying on the adjacent floors. T doesn't stay on the fifth floor. As many persons stay above T as below V. U stays above W. The number of persons staying between U and W is one more than the number of persons staying between X and Y. At least one person stays between W and Z. Not less than four persons are staying between P and

R, who stays below Y. P stays below U.

**26) Who among the following person stays immediately above Q?**

- a) The one who stays below W
- b) The one who stays two floors above Y
- c) The one who stays immediately below P
- d) The one who stays between U and X
- e) None of these

**27) How many persons are staying between S and T?**

- a) Six
- b) Three
- c) Four
- d) Five
- e) None of these

**28) Which of the following statement(s) is/are true with respect to the final arrangement?**

- a) X stays immediately below U
- b) W stays below V
- c) Q stays exactly between T and P
- d) All the statements are true

e) None of these

**29) If S is related to Z and P is related to W in a certain way, then who among the following person is related to P?**

- a) S
- b) X
- c) V
- d) W
- e) None of these

**30) If all the persons are made to stay in the alphabetical order from top to bottom, then how many persons remain unchanged in their positions?**

- a) No one
- b) Two
- c) Three
- d) One
- e) None of these

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**Answer Key with Final Arrangement**

**Directions (26-30):**

**26. Answer: C**

**27. Answer: D**

**28. Answer: B**

**29. Answer: E**

**30. Answer: D**

**Final arrangement:**

| Floor | Person |
|-------|--------|
| 11    | U      |

|    |   |
|----|---|
| 10 | S |
| 9  | X |
| 8  | V |
| 7  | P |
| 6  | Z |
| 5  | Q |
| 4  | T |
| 3  | W |
| 2  | Y |
| 1  | R |

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## Practice Questions

### Set 7 (Clerk Mains)

**Directions (31–35):** Study the following information carefully and answer the questions given below.

Seven persons viz. J, K, L, M, N, O and P are living in a seven storey-building, but not necessarily in the same order. Each person has different types of cars viz. Audi, Datsun, Ferrari, Fiat, Ford, Honda and Nissan. The lowermost floor is numbered as 1 and the floor immediately above it is numbered as 2 and so on.

The one who has Datsun lives on an even numbered floor. Only two floors are there between the one who has Datsun and K, who doesn't live on the bottom-most floor. As many floors above K as below the one who has Fiat. More than two floors are there between the one who has Fiat and O. The one who has Nissan lives on the floor adjacent to O. The one who has Ferrari lives immediately above the one who has Nissan. The number of floors above the one who has Ferrari is one less than the number of floors below P. Only one person lives between P and L, who doesn't live on the bottom-most

floor. The one who has Audi lives above L. Both N and the one who has Honda are living on the even numbered floors. J lives on the floor adjacent to the one who has Ford. N doesn't have Honda.

**31. Who among the following person has a Fiat car?**

- a) L
- b) The one who lives on floor 3
- c) J
- d) The one who lives on floor 1
- e) None of these

**32. How many floors are there below the one who has Ford?**

- a) One
- b) Two
- c) Three
- d) More than three
- e) None

**33. On which of the following floor does L live?**

- a) Floor 5
- b) Floor 7
- c) Floor 6
- d) Floor 3
- e) None of these

**34. The person living on floor 2 uses which of the following car?**

- a) Datsun
- b) Ford
- c) Honda
- d) Nissan
- e) None of these

**the topmost floor, then how many persons remain unchanged in their position?**

- a) One
- b) Two
- c) Three
- d) More than three
- e) None

**35. If all the persons are made to live in the alphabetical order from**

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**Answer Key with Final Arrangement**

**Directions (31-35):**

- 31. Answer: D**
- 32. Answer: B**
- 33. Answer: A**
- 34. Answer: C**
- 35. Answer: A**

**Final arrangement:**

| Floor | Person | Cars    |
|-------|--------|---------|
| 7     | K      | Audi    |
| 6     | O      | Ferrari |
| 5     | L      | Nissan  |
| 4     | N      | Datsun  |
| 3     | P      | Ford    |
| 2     | J      | Honda   |
| 1     | M      | Fiat    |

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## Practice Questions

### Set 8 (PO Pre)

**Directions (36-40) Study the following information carefully and answer the below questions.**

A certain number of persons are living in a building. Information about only a few persons is known. F lives five floors below W. Two persons are living between W and Q. W lives exactly between Q and G. Not more than four floors are above G. Six persons are living between the one who lives immediately above Q and K, who doesn't live on the topmost floor. M lives three floors below K. The number of persons living between M and F is the same as the number of floors below K. The number of floors above F is thrice the number of floors below M.

**36) How many floors are there in the building?**

- a) Thirteen
- b) Twenty
- c) Twenty-three
- d) Sixteen
- e) None of these

**37) Who among the following persons live between M and Q?**

I. K

II. The one who lives five floors below G

III. F

- a) Both II and III
- b) Both I and II
- c) Both I and III
- d) All I, II, and III
- e) None

**38) How many floors are below M?**

- a) Six
- b) As many floors are between F and Q
- c) Three
- d) Four
- e) None of these

**39) What is the position of W from the top?**

- a) Fifth
- b) Ninth
- c) Third
- d) Seventh
- e) None of these

**40) Which of the following information is not true?**

- a) Two persons are living between K and M
- b) Q lives five floors above K

- c) G lives second from the top
- d) W lives three floors below G
- e) All the above statements are true

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**Answer Key with Final Arrangement**

**Direction (36-40):**

- 36. Answer: B**
- 37. Answer: C**
- 38. Answer: C**
- 39. Answer: A**
- 40. Answer: B**

| Case (2a) |
|-----------|
|           |
| G         |
|           |
|           |
| W         |
|           |
|           |
| Q         |
|           |
| F         |
|           |
|           |
| K         |
|           |
|           |
| M         |
|           |
|           |
|           |

## Practice Questions Set 9 (Clerk Mains)

**Directions (41-45): Study the following information carefully and answer the following questions.**

Eight persons – Zara, Ratan, Abhay, Pihu, Madan, Shreya, Rekha, and Kundan are living in a nine floored building marked 1 to 9 from bottom to top respectively. One floor is vacant but neither the topmost nor the bottommost floor is vacant. The salary of each person is different viz.- 14K, 18K, 21K, 24K, 26K, 27K, 35K, and 39K. All the information is not necessarily in the same order.

The one whose salary is 14k lives four floors below Rekha, whose salary is 8k more than the salary of Kundan. Rekha lives on an even numbered floor. One person lives between Rekha and the one whose salary is 21k, who lives on any floor below Rekha. The sum of the salary of Abhay and Madan is equal to the salary of Shreya. The salary of Zara is 12k more than the salary of Ratan, who doesn't live adjacent to the vacant floor. Ratan lives three floors above the one whose salary is 26k. The number of floors between Ratan and Rekha is one less than the number of floors below Zara. Two persons are living between Zara and the one whose salary is 35k. The one whose salary is 35k lives

immediately above Kundan's floor. Pihu and Madan are not living on adjacent floors.

**41) How many persons are living between the one whose salary is 39k and Shreya?**

- a) Three
- b) As many persons live above the one whose salary is 27k.
- c) As many persons live below the one whose salary is 21k.
- d) Either B or C
- e) None

**42) Who among the following person lives immediately below the one whose salary is 18k?**

- a) The one who lives three floors above Madan.**
- b) The one whose salary is 27k
- c) Zara
- d) The one whose salary is 21k
- e) None of these

**43) Four of the following five are alike in a certain way based on the given arrangement and thus form a group. Which one of the following doesn't belong to the group?**

- a) Shreya – 27
- b) Rekha – 39
- c) Abhay – 21
- d) Madan – 18
- e) Pihu – 14

**44) Which of the following statement is/are not true?**

- a) Three persons are living between Pihu and the one whose salary is 26k
- b) Shreya lives two floors below the one whose salary is 27k
- c) The salary of Zara is 39k
- d) Kundan lives on floor number 7

e) All the above statements are true

**45) Who among the following person lives on floor number 5?**

- A)Ratan
- B)Zara
- C)Madan
- D)No one
- e)Shreya

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**Answer Key with Final Arrangement**

**Direction (41-45):**

- 41. Answer: C**
- 42. Answer: A**
- 43. Answer: D**
- 44. Answer: B**
- 45. Answer: D**

| Case (2a) |        |        |
|-----------|--------|--------|
| Floor     | Name   | Salary |
| 9         | Ratan  | 27     |
| 8         | Shreya | 35     |
| 7         | Kundan | 18     |
| 6         | Rekha  | 26     |
| 5         | ----   | ----   |
| 4         | Zara   | 39     |
| 3         | Madan  | 21     |
| 2         | Abhay  | 14     |
| 1         | Pihu   | 24     |

## Practice Questions

### Set 10 (PO Mains)

**Direction (46–50):** Study the following information carefully and answer the below questions.

Nine persons – A, B, C, D, E, F, G, H, and I are living in a nine floored building marked 1 to 9 from bottom to top respectively. Each person has different working experience viz.- 7, 9, 12, 13, 14, 17, 21, 24, and 26. All the information is not necessarily in the same order. No two persons live on the same floor.

**Note:** The experience of the persons living on the adjacent floor is neither a common factor nor a common multiple.

B lives on an even numbered floor. C, who lives on any floor below floor number 4 and lives three floors away from B but doesn't have experience of 12 years. Neither B nor C lives on the adjacent floor of I, who lives four floors away from the one whose experience is 7 years. The number of persons living between B and I is the same as the number of persons living below A, whose experience is 17 years. G lives three floors above the one whose experience is 21 years. The number of persons living between G and the one whose experience is 26 years is one more than the number of persons living between the one

whose experience is 12 years and H. Experience of I is neither 26 nor 14 years. H lives on any floor above the one whose experience is 12 years but not adjacent to B's floor. H doesn't live on the topmost floor. The one whose experience is 14 years lives two floors away from D. F has less experience than E.

**46) Experience of who among the following person is 26 years?**

**A.**E

**B.**The one who lives three floors above F

**C.**The one who lives immediately below D

**D.**Either A or C

**E.**Either A or B

**47) As many persons live between D and the one whose experience is 7 years is same as between \_\_\_\_?**

**A.**A and the one whose experience is 12 years.

**B.**B and G

**C.**C and the one whose experience is 21 years

**D.**H and B

**E.**Both B and C

**48) What is the sum of the experience of the persons living on the floor numbers 6, 4, and 1?**

**A.**43

- B.45
- C.40
- D.49
- E.None of these

**49) If all the persons from the top of the building live in ascending order of their experience then, the floor of how many persons remains unchanged?**

- A.One
- B.Two
- C.None

- D.More than three
- E.Three

**50) Experience of who among the following person is 13 years?**

- A.The one who lives immediately below I
- B.The one who lives three floors above F
- C.The one who lives immediately below D
- D.The one who lives on the 2<sup>nd</sup> floor
- E.None of these

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**Answer Key with Final Arrangement**

**Directions (46-50):**

- 46. Answer: A**
- 47. Answer: E**
- 48. Answer: C**
- 49. Answer: A**
- 50. Answer: A**

| Case (2) |      |            |
|----------|------|------------|
| Floor    | Name | Experience |
| 9        | G    | 14         |
| 8        | I    | 9          |
| 7        | D    | 13         |
| 6        | B    | 21         |
| 5        | E    | 26         |
| 4        | H    | 7          |
| 3        | C    | 24         |
| 2        | A    | 17         |
| 1        | F    | 12         |

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## Practice Questions

### Set 11 (PO Mains)

**Directions (51-55) Study the following information carefully and answer the below questions.**

Nine persons – P, Q, R, S, T, U, V, W, and X are living in a nine-storey building marked 1 to 9 from bottom to top respectively but not necessarily in the same order.

Only four persons live between P and the one who lives two floors below R. Only two persons live between R and W. The number of persons living below W is one less than the number of persons living above X. T lives on the floor exactly between X and R. Only three persons live between T and the one who lives on the adjacent floor of S. S and W don't live on the adjacent floors. V lives three floors above Q.

Initially, all the persons are standing on a staircase marked 1 to 30 at a consecutive multiple of three in alphabetical order from bottom to top. Now, each person throws a pair of dice and moves their position based on the following outcome.

**Condition:**

- I. If a person lives on an even numbered floor moves below, whereas the one who lives on an odd numbered floor moves above.
- II. If the sum of the outcome of numbers is an odd number then the person moves five steps, whereas if

the sum of outcomes is an even number then the person moves four steps.

III. More than one person can stand on the same step.

Outcome:

R, T, X  $\rightarrow$  (4, 2)

Q  $\rightarrow$  (1, 3)

P, V  $\rightarrow$  (3, 2)

U, W, S  $\rightarrow$  (6, 1)

**51) Who among the following person lives four floors below U?**

- a) S
- b) The one who lives two floors below T
- c) The one who lives immediately above R
- d) X
- e) None of these

**52) How many persons are standing between the one who lives on floor number three and the one who lives three floors above W?**

- a) Five
- b) Two
- c) One
- d) Four
- e) None

**53) Who among the following person stands between S and W?**

- a) V and T
- b) U, V and X
- c) X and U

- d) X
- e) None of these

**54) How many persons are standing at an odd prime number step (after movement) ?**

- a) Three
- b) Six
- c) One
- d) Seven

- e) None of these

**55) Which of the following statement is not true?**

- a) U and X are standing together
- b) Two persons are standing below step number seven
- c) T standing between R and P
- d) R standing three steps below P
- e) All the above statements are true

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**Answer Key with Final Arrangement**

**Direction (51-55):**

- 51. Answer: C**
- 52. Answer: B**
- 53. Answer: B**
- 54. Answer: B**
- 55. Answer: C**

| Floor | Case (2) | <del>Case (3)</del> |
|-------|----------|---------------------|
| 9     | U        |                     |
| 8     | X        | R                   |
| 7     | P        |                     |
| 6     | T        | T                   |
| 5     | V        | W                   |
| 4     | R        | X                   |
| 3     | S        | S                   |
| 2     | Q        |                     |
| 1     | W        | P                   |



| Staircase | Before Movement | After Movement |
|-----------|-----------------|----------------|
| 30        |                 |                |
| 29        |                 | W              |
| 28        |                 |                |
| 27        | X               |                |
| 26        |                 | V              |
| 25        |                 |                |
| 24        | W               |                |
| 23        |                 | X, U           |
| 22        |                 |                |
| 21        | V               |                |
| 20        |                 |                |
| 19        |                 |                |
| 18        | U               |                |
| 17        |                 | S              |
| 16        |                 |                |
| 15        | T               |                |
| 14        |                 |                |
| 13        |                 |                |
| 12        | S               |                |
| 11        |                 | T              |
| 10        |                 |                |
| 9         | R               |                |
| 8         |                 | P              |
| 7         |                 |                |
| 6         | Q               |                |
| 5         |                 | R              |
| 4         |                 |                |
| 3         | P               |                |
| 2         |                 | Q              |
| 1         |                 |                |

## Practice Questions

### Set 12 (PO Mains)

**Directions (56–60) Study the following information carefully and answer the questions given below.**

Nine persons –B, D, F, G, K, M, N, P, and T from a three generation family are living in a nine storey building marked 1 to 9 from the bottom to top respectively. Only three married couples are there in the family. Either both or none of the parents are alive.

B is living four floors below G's mother-in-law. At least one person lives above G's mother-in-law. G is the only son of D. Only two persons are living between P and N, who lives on the adjacent floor of B. P is the father of T but doesn't live on the adjacent floor of G. T is the sister-in-law of N and vice-versa. As many persons live below N as above G, who is the father of K. Three persons are living between T and K. The number of persons living between T and G is one more than the number of persons living below N's mother. D is the only neighbor of T. B is the only son of T, who is the daughter-in-law of M.

**56) How is D related to the one who lives immediately below K?**

- a) Father-in-law
- b) Sister-in-law
- c) Brother
- d) Father
- e) None of these

**57) Who among the following person is the mother of G?**

- a) The one who lives immediately above P
- b) F
- c) The one who lives three floors below K
- d) Both A and C
- e) P

**58) How is T related to the one who lives immediately above F?**

- a) Sister
- b) Daughter-in-law
- c) Aunt
- d) Mother
- e) Mother-in-law

**59) Four of the following five are alike in a certain way based on the given arrangement and thus form**

**a group. Which one of the following does not belong to the group?**

- a) The one who lives immediately below T's husband
- b) The one who lives two floors below B
- c) P's wife
- d) The one who lives immediately below T
- e) B

**60) Which of the following statement is not true?**

- a) B is the son of the one who lives immediately above K
- b) Only two persons are living above G's mother-in-law
- c) P lives two floors below G's mother
- d) Four persons are living below B's sister
- e) All the above statements are true

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**Answer Key with Final Arrangement**

**Directions (56-60):**

**56. Answer: D**

**57. Answer: D**

**58. Answer: B**

**59. Answer: D ( all persons are living on an odd numbered floor, except for option d)**

**60. Answer: C**

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## IBPS RRB Clerk Prelims Memory Based Paper (Memory Based Paper held on 7th August 2022)

### Reasoning Ability

**Directions (1-5): Study the following information carefully and answer the**

**questions given below. (Level-Easy)**

Six persons- P, Q, R, S, T and U bought the car on two different dates- 5<sup>th</sup> and 28<sup>th</sup>

of three different months viz., January, June and December of the same year.

S bought the car in a month having 30 days. Only two persons bought the car between

S and P. As many persons bought the car after P as before T. Q bought the car before U but after R. Not more than two persons bought the car between T and U.

**1) On which of the following day and month does R buy the car?**

- a) 28<sup>th</sup> June
- b) 5<sup>th</sup> June
- c) 28<sup>th</sup> January
- d) 28<sup>th</sup> December
- e) 5<sup>th</sup> January

**2) Who among the following person bought the car immediately after U?**

- a) S
- b) Q
- c) P
- d) R
- e) T

**3) Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Find the one who does not belong to that group.**

- a) P
- b) Q
- c) U
- d) T
- e) R

**4) If all the persons bought the car in an alphabetical order starting from 5<sup>th</sup>**

**January, then how many persons will remain unchanged in their position?**

- a) One
- b) Two

- c) Three
- d) Four
- e) None

**5) Which of the following statement(s) is/are incorrect?**

- a) P bought the car before R
- b) Q bought the car on 5<sup>th</sup> June
- c) None of the statements are incorrect
- d) No one bought the car between U and S
- e) T bought the car on 5<sup>th</sup> December

**Directions (6-8): Study the following information carefully and answer the questions given below.**

Point R is 11m west of Q and 5m west of point S. Point J is 7m south of point S and 6m east of point W. Point L is 9m north of point W. Point P is 10m north of point Q.

**6. Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Find the one that doesn't belong to that group.**

- a) LJ
- b) PS
- c) LQ
- d) RJ
- e) LS

**7. If point T is 1m west of point R, then the distance between S and T is equal to which of the following points?**

- a) WL
- b) PQ
- c) SQ
- d) WJ
- e) Both c and d

**8. What is the direction of point P with respect to point J?**

- a) Northeast
- b) Northwest
- c) West
- d) Southwest
- e) Southeast

**Directions (9-13) Study the following information carefully and answer the questions given below.**

Eight persons- A, B, C, D, E, F, G and H are sitting around a rectangular table in such a

way that four persons are sitting on the corners and facing inside while the remaining persons are sitting in the middle of the sides and facing outside.

E sits in the middle of the side of the table. G sits adjacent to E. Only three persons sit

between G and B. A sits third to the right of B. D sits second to the right of F. C sits at

the corner of the table and is an immediate neighbour of A.

**9) Who among the following person sits second to the right of D?**

- a) F
- b) A
- c) E
- d) B
- e) H

**10) Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Find the one who does not belong to that group.**

- a) C
- b) B
- c) G
- d) D
- e) H

**11) Who among the following person sits opposite to H?**

- a) F
- b) C

- c) G
- d) D
- e) B

**12) What is the position of F with respect to A?**

- a) Third to the right
- b) Fourth to the left
- c) Second to the left
- d) Immediate right
- e) Second to the right

**13) How many persons sit between D and G when counted from the right of D?**

- a) Three
- b) Four
- c) Two
- d) One
- e) None

**Directions (14–18): Study the following information carefully and answer the questions given below.**

632 743 421 869 578

**14) If all the digits within each number are arranged in ascending order (from the left) then which among the following number will be the highest?**

- a) 632
- b) 578
- c) 421
- d) 743
- e) 869

**15) If in each number the third and the first digits are interchanged, then how many numbers will be divisible by four?**

- a) Three
- b) One
- c) Two
- d) Four
- e) None

**16) If in each number the third digits are dropped and the first digit of each number is increased by one and the second digit of each number is subtracted by one, then the product of the first and second digits of how many numbers will be more than nineteen?**

- a) Two
- b) Three
- c) Four
- d) None
- e) One

**17) If in each number the first digits are dropped, then how many**

**numbers will become prime numbers?**

- a) Two
- b) Three
- c) More than three
- d) One
- e) None

**18) If all the numbers are arranged in ascending order from left to right, then which of the following number is third from the left end?**

- a) 743
- b) 578
- c) 869
- d) 632
- e) 421

**Directions (19-23): Study the following information carefully and answer the questions given below.**

Seven persons L, M, N, O, P, Q and R are visiting a store on seven different days of the same week starting from Monday to Sunday.

Only four persons visit between L and P, where L visits the store before P. M visits immediately before P. Only two persons visit between M and N. R visits immediately after O. Q doesn't visit the store on Sunday.

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**19. Who among the following person visits the store on Thursday?**

- a) L
- b) Q
- c) M
- d) O
- e) R

**20. How many persons visit between Q and N?**

- a) One
- b) Two
- c) Three
- d) More than three
- e) No one

**21. On which of the following day does M visit the store?**

- a) Monday
- b) Wednesday
- c) Friday
- d) Tuesday
- e) Saturday

**22. Four of the following five are alike in a certain way as per the given arrangement and hence form a group. Find the one that doesn't belong to that group.**

- a) R-Thursday
- b) L-Monday
- c) N-Wednesday

- d) M-Friday
- e) P-Saturday

**23. If Q is related to O and N is related to M in a certain way, then who among the following person is related to R?**

- a) Q
- b) P
- c) M
- d) L
- e) N

**Directions (24-28): Study the following information carefully and answer the**

**questions given below. (Level-Easy)**

**T B \$ 4 E D # 6 A Q I G 9 ? J L P 2 F 8 @ M & O 3 7**

**24) How many elements are there which are immediately preceded by a number and immediately followed by a consonant in the given series?**

- a) Four
- b) Three
- c) Two
- d) One
- e) More than Four

**25) If all the even numbers are dropped from the given series, then**

**which element is the third to the right of the tenth element from the right end?**

- a) P
- b) F
- c) ?
- d) M
- e) @

**26) Which of the following element is the fifth to the right of the third vowel from the left end?**

- a) L
- b) F
- c) ?
- d) M
- e) \$

**27) How many such numerals(as per the numerical order) are there between the fourth number from the right end and third number from the left end?**

- a) Seven
- b) Four
- c) Eight
- d) Five
- e) Six

**28) Which element is exactly between the third symbol from the**

**right end and Sixth letter from the left end?**

- a) G
- b) I
- c) #
- d) L
- e) ?

**29. How many meaningful words can be formed from the second, third, fourth and seventh letters of the word "CATEGORY", using each letter only once in each word?**

- a) One
- b) Two
- c) Three
- d) More than three
- e) None

**30. How many such pairs of digits are there in the number "95362184" each of which has as many digits between them as there in the number series (both forward and backward directions)?**

- a) One
- b) Two
- c) Three
- d) Four
- e) More than four

**31. If in the word "PRAISED" all the vowels are changed to the immediate next letter and all the consonants are changed to the immediate previous letter as per the English alphabetical series, then which of the following letter is repeated more than once? (Level-Easy)**

- a) Q
- b) B
- c) O
- d) J
- e) None

**32. Find the odd one that doesn't belong to that group \_\_\_\_.**

- a) OKM
- b) HDF
- c) JEV
- d) PLN
- e) UQS

**Directions (33-37): Study the following statements and then decide which of the given conclusions logically follows from the given statements disregarding the commonly known facts.**

**33) Statements:**

Some graphs are lines.

All lines are geometry.

Only a few geometries are maths.

**Conclusions:**

- I. Some maths can be lines.
- II. Some maths are not geometry.
- A. Only II follows
- B. Only I follows
- C. Either I or II follows
- D. Neither I nor II follows
- E. Both I and II follow

**34) Statements:**

All papers are books.

Some pens are books.

No pen is sharper.

**Conclusions:**

- I. Some sharper are paper.
- II. Some books are not sharper.
- A. Only I follows
- B. Both I and II follow
- C. Either I or II follows
- D. Only II follows
- E. None follows

**35) Statements:**

Some doors are window.

All windows are glass.

Only a few glasses are mirror.

**Conclusions:**

- I. Some doors are mirrors is a possibility.
- II. Some glasses are doors.

- A. Only II follows
- B. Both I and II follow
- C. Only I follows
- D. Either I or II follows
- E. None follows

**36) Statements:**

Only a few good is bad.  
 No good is problem.  
 Some problems are solutions.

**Conclusions:**

- I. Some bad can be solution.
- II. No solution is bad.

- A. Only I follows
- B. Only II follows
- C. Either I or II follows
- D. Both I and II follow
- E. None follows

**37) Statements:**

All mobiles are tablets.  
 Some tablets are laptops.  
 Only a few laptops are computers.

**Conclusions:**

- I. Some laptops are mobiles.
- II. No mobile is laptop.

- A. Only I follows
- B. Only II follows
- C. Neither I nor II follows
- D. Either I or II follows
- E. Both I and II follow

**Directions (38-40):** In each of the following questions, the relationship between different elements is shown in the statements followed by two conclusions. Find the conclusion which is definitely true

**38) Statements:**

$B \leq E < D \geq C < F$

**Conclusions:**

- I.  $D > B$
- II.  $B < F$
- a) If only conclusion I is true.
- b) If only conclusion II is true.
- c) If either conclusion I or II is true.
- d) If neither conclusion I nor II is true.
- e) If both conclusions I and I are true

**39. Statements:**

$M = O < R \leq E > S \geq W = G < C \leq Y$

**Conclusions:**

- I.  $C \geq R$
- II.  $Y > W$
- a) If only conclusion I is true.
- b) If only conclusion II is true.
- c) If either conclusion I or II is true.
- d) If neither conclusion I nor II is true.
- e) If both conclusions I and I are true.

**40. Statements:**

$S \geq V \geq H = U \geq F = C \leq D < R \leq W$

**Conclusions:**

- I.  $R > F$

II.  $V \geq C$

- a) If only conclusion I is true.
- b) If only conclusion II is true.
- c) If either conclusion I or II is true.
- d) If neither conclusion I nor II is true.
- e) If both conclusions I and I are true.

### Numerical Ability

**Directions (41-45):** Study the following information carefully and answer the given questions.

The given below table shows the number of small ice cream cups, number of medium ice cream cups and number of large ice cream cups sold in four different shops namely A, B, C and D.

| Shop | Number of small ice cream cups sold | Number of medium ice cream cups sold | Number of large ice cream cups sold |
|------|-------------------------------------|--------------------------------------|-------------------------------------|
| A    | 280                                 | 675                                  | 320                                 |
| B    | 600                                 | 400                                  | 500                                 |
| C    | 360                                 | 200                                  | 450                                 |
| D    | 440                                 | 160                                  | 240                                 |

**41) Find the ratio of the number of medium ice cream cups sold in**

**Shop B to the total number of medium ice cream cups and large ice cream cups sold in Shop D.**

- a) 4:3
- b) 5:4
- c) 1:1
- d) 3:2
- e) None of these

**42) The number of small ice cream cups sold in Shop C is what percentage of the total number of small ice cream cups and large ice cream cups sold in Shop A?**

- a) 60%
- b) 75%
- c) 40%
- d) 80%
- e) None of these

**43) Find the difference between the average number of medium ice cream cups sold in Shop B and Shop C and the number of large ice cream cups sold in Shop A.**

- a) 25
- b) 10
- c) 15
- d) 20
- e) None of these

**44) If the number of small ice cream cups sold in Shop E is  $\frac{5}{4}$ th of the number of small ice cream cups sold in Shop C, then find the difference between the number of small ice cream cups sold in Shop E and medium ice cream cups sold in Shop A.**

- a) 270
- b) 225
- c) 250
- d) 180
- e) None of these

**45) 60% of the large ice cream cups sold in Shop B are ceramic ice cream cups and the average number of large ceramic ice cream cups sold in Shop B and Shop D is 250. Find the number of large ceramic ice cream cups sold in Shop D.**

- a) 180
- b) 120
- c) 150
- d) 200
- e) None of these

**Directions (46–50): What value should come in the place of (?) in the following number series?**

**46) 130, 138, 125, 133, 120, ?**

- a) 128
- b) 120
- c) 112
- d) 140
- e) 132

**47) 80, 103, 132, 163, 200, ?**

- a) 220
- b) 280
- c) 255
- d) 241
- e) 260

**48) 40, 60, 84, 112, 144, ?**

- a) 220
- b) 180
- c) 160
- d) 200
- e) 240

**49) 36, 40, 49, 65, 90, ?**

- a) 96
- b) 116
- c) 100
- d) 110
- e) 126

**50) 16, 8, 8, 16, 64, ?**

- a) 600
- b) 550
- c) 512
- d) 400

e) 450

**Directions (51-53): Study the following information carefully and answer the given questions.**

Two genres of books namely fictional and non-fictional are available in a library in two languages namely English and Hindi. Ratio of the total number of English to Hindi books available in the library is 7:5 and the difference between the total number of English and Hindi books available is 400. 75% of the English books available are non-fictional and the ratio of the number of Hindi to English non-fictional books available is 4:7.

**51) Find the difference between the total number of non-fictional books available in the library and the total number of Hindi books available in the library.**

- a) 550
- b) 700
- c) 650
- d) 400
- e) None of these

**52) Find the ratio of the number of English to Hindi fictional books available in the library.**

- a) 7:8

- b) 5:4
- c) 2:3
- d) 4:3
- e) None of these

**53) If the ratio of the thriller to other genres fiction Hindi books is 3:2. Find the sum of the thriller fictional Hindi books and the total number of non-fictional Hindi books.**

- a) 680
- b) 600
- c) 480
- d) 840
- e) None of these

**54) Sum of the five consecutive even numbers is 130. Find the average of the 2<sup>nd</sup> and 5<sup>th</sup> even number.**

- a) 26
- b) 23
- c) 27
- d) 25
- e) None of these

**55) A car covers 480 km in x hours. If the car reduces its speed by 20%, then the car covers the same distance in (x + 2) hours. Find the original speed of the car.**

- a) 60 km/hr

- b) 40 km/hr
- c) 45 km/hr
- d) 70 km/hr
- e) None of these

**56) A shopkeeper bought a watch for a certain price and marked the price of the watch by 50%. After allowing two consecutive discounts of 25% and 20%, then the shopkeeper obtained a loss of Rs.200. Find the cost price of the watch.**

- a) Rs.2000
- b) Rs.1000
- c) Rs.2500
- d) Rs.1500
- e) None of these

**57) A vessel contains a mixture of 150 liters of milk and water in the ratio of 8:7. 60 liters of mixture is removed and x liters of water is added, then the ratio of the milk to water becomes 4:5. Find the value of x.**

- a) 20
- b) 12
- c) 18
- d) 8
- e) None of these

**58) A and B entered into a partnership with their investment in the ratio of 5:4 and invested for x months and y months respectively. If the total profit obtained by A and B is 2300 and the profit obtained by B is Rs.800, then find the ratio of x:y.**

- a) 5:4
- b) 4:7
- c) 5:3
- d) 3:2
- e) None of these

**Directions (59–60): What value should come in the place of (?) in the following questions?**

**59)  $60\% \text{ of } 350 - 80\% \text{ of } 120 = ? * 3$**

- a) 20
- b) 35
- c) 38
- d) 30
- e) 24

**60)  $(15 * 8) + (16 * 20) - 18^2 = ?$**

- a) 124
- b) 125
- c) 130
- d) 101
- e) 116



**Directions (61-65): Study the following information carefully and answer the given questions.**

The given below line graph shows the income of five different persons namely A, B, C, D and E and also given the expenditure of these five different persons.



**61) Find the ratio of the expenditure of A to the savings of E?**

- a) 6:5
- b) 7:4
- c) 2:1
- d) 4:3
- e) None of these

**expenditure of F is what percentage of the expenditure of C?**

- a) 35%
- b) 65%
- c) 45%
- d) 25%
- e) None of these

**62) If the expenditure of F is  $\frac{3}{5}$ th of the expenditure of E, then the**

**63) The income of A is what percentage more/less than the savings of D?**

- a) 60% more
- b) 25% less
- c) 10% more
- d) 35% less
- e) None of these

**64) Find the difference between the income of C and the savings of A?**

- a) Rs.6000
- b) Rs.4000
- c) Rs.5000
- d) Rs.7000
- e) None of these

**65) If the income of B is increased by 25% and the expenditure of B is increased by Rs.3000, then find the savings of B.**

- a) Rs.5000
- b) Rs.2000
- c) Rs.4000
- d) Rs.3000
- e) None of these

**66. The ratio of the number of students in school A to school B is 4:3. If 50 students of class A move to class B, then the ratio of the number of students in school A to school B is 3:4. Find the number of students left in school A?**

- a) 150
- b) 200
- c) 100
- d) 160
- e) None of these

**67) Shyam is 15 years elder than Putin and Rohit is 10 years younger than Putin. If the ratio of the age of Shyam to Rohit is 9:4, then find the average age of Rohit and Putin.**

- a) 40 years
- b) 35 years
- c) 25 years
- d) 30 years
- e) None of these

**68) The ratio of the speed of the boat in still water to stream is 5:1 and the boat covers 120 upstream in 6 hours, then find the time taken by the boat to cover 100 km in still water.**

- a) 2 hours
- b) 10 hours
- c) 5 hours
- d) 4 hours
- e) None of these

**69) The total cost of fencing a square field at Rs.12 per meter is**

**Rs.1056. If the length of the rectangle is equal to the side of the square field and the breadth of the rectangle is 3 m more than its length, then find the area of the rectangle.**

- a) 300 m<sup>2</sup>
- b) 550 m<sup>2</sup>
- c) 460 m<sup>2</sup>
- d) 320 m<sup>2</sup>
- e) None of these

**70) A and B together can complete the work in 18 days and A can complete the work in 24 days. If B and C together complete the work in 24 days, then in how many days C alone can complete the work?**

- a) 24 days
- b) 45 days
- c) 18 days
- d) 36 days
- e) None of these

**71) 11% of 200 + 40% of 250 = ? + 42**

- a) 27
- b) 50
- c) 32
- d) 80
- e) 45

**32)  $?^2 + 90 \div 6 = 13 * 5 + 119$**

- a) 11
- b) 13
- c) 15
- d) 18
- e) 10

**73)  $(221 + 29 + ?) \div 10 = 120 \div 3$**

- a) 130
- b) 110
- c) 150
- d) 170
- e) 120

**74)  $\sqrt{484 + ?} - \sqrt{225} = \sqrt[3]{125} * 6$**

- a) 23
- b) 15
- c) 18
- d) 20
- e) 10

**75)  $1/2 + 3/8 - 1/4 + ? = 5/8 + 3/4$**

- a) 1/2
- b) 3/8
- c) 3/4
- d) 5/8
- e) 1/8

**76)  $\sqrt{(42 + 100 + 3^3)} * ? = 195 * 2$**

- a) 25

- b) 10
- c) 22
- d) 30
- e) 16

**77) 25% of 300 + ? = 6% of 2500**

- a) 65
- b) 30
- c) 95
- d) 40
- e) 75

**78)  $\sqrt[3]{343} + \sqrt{729} = ? \div 5 + \sqrt{196}$**

- a) 160
- b) 100
- c) 180

- d) 150
- e) 120

**79) ?% of 420 + 128 = 340 ÷ 2**

- a) 10
- b) 8
- c) 17
- d) 9
- e) 16

**80) 505 - 110 -  $\sqrt{625} = ? + 215$**

- a) 170
- b) 115
- c) 155
- d) 140
- e) 125

### ANSWER WITH EXPLANATION

**Directions (1-5):**

**1. Answer: C**

**2. Answer: E**

**3. Answer: B** (Except for option b, all bought a car in a month of 31 days)

**4. Answer: B**

**5. Answer: E**

**Final arrangement**

| Month with Date          | Persons |
|--------------------------|---------|
| January 5 <sup>th</sup>  | P       |
| January 28 <sup>th</sup> | R       |

|                           |   |
|---------------------------|---|
| June 5 <sup>th</sup>      | Q |
| June 28 <sup>th</sup>     | S |
| December 5 <sup>th</sup>  | U |
| December 28 <sup>th</sup> | T |

We have,

- S bought the car in a month having 30 days.
- Only two persons bought the car between S and P.

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- As many persons bought the car after P as before T

From the above conditions, there are two possibilities

|                           | Case1   | Case2   |
|---------------------------|---------|---------|
| Month with Date           | Persons | Persons |
| January 5 <sup>th</sup>   | T       | P       |
| January 28 <sup>th</sup>  |         |         |
| June 5 <sup>th</sup>      | S       |         |
| June 28 <sup>th</sup>     |         | S       |
| December 5 <sup>th</sup>  |         |         |
| December 28 <sup>th</sup> | P       | T       |

Again we have,

- Q bought the car before U but after R
- Not more than two persons bought the car between T and U

From the above conditions, Case1 gets eliminated and Case2 shows the final arrangement

|                 | <del>Case1</del> | Case2   |
|-----------------|------------------|---------|
| Month with Date | Persons          | Persons |
| January         | T                | P       |

|                           |   |   |
|---------------------------|---|---|
| 5 <sup>th</sup>           |   |   |
| January 28 <sup>th</sup>  | R | R |
| June 5 <sup>th</sup>      | S | Q |
| June 28 <sup>th</sup>     | Q | S |
| December 5 <sup>th</sup>  | U | U |
| December 28 <sup>th</sup> | P | T |

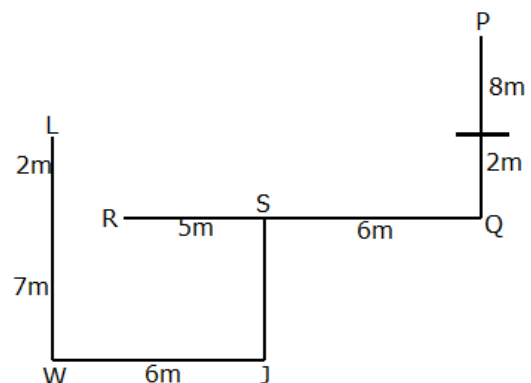
Directions (6-8):

6. Answer: B (first point is to the northwest of second point, except for option b)

7. Answer: E

8. Answer: A

Following diagram is based on the conditions mentioned in the question



Directions (9-13):

9. Answer: C

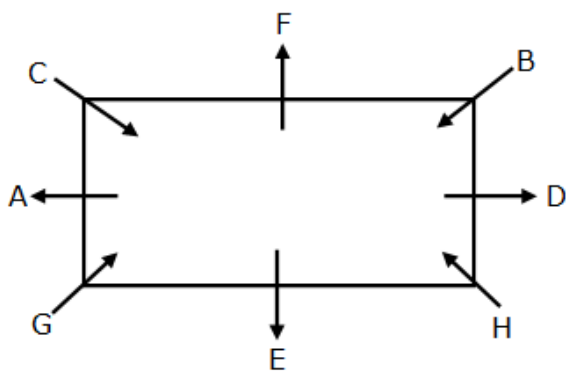
**10. Answer: D** (Except option d, all are sitting at the corners of the table)

**11. Answer: B**

**12. Answer: E**

**13. Answer: C**

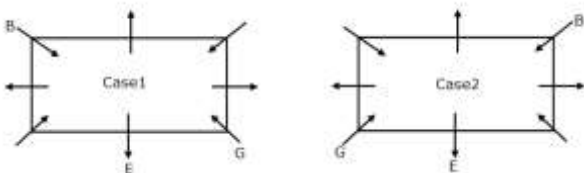
**Final arrangement**



We have,

- E sits in the middle of the side of the table
- G sits adjacent to E
- Only three persons sit between G and B

From the above conditions, there are two possibilities

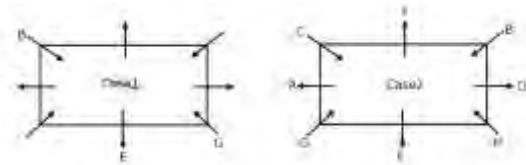


Again we have,

- A sits third to the right of B
- D sits second to the right of F

- C sits at the corner of the table and is an immediate neighbour of A

From the above conditions, Case 1 gets eliminated and Case 2 shows the final arrangement



**14. Answer: E**

Given number: 632 743 421 869 578  
In each number, all the digits are arranged in ascending order within the number

236 347 124 **689** 578

We have to find out the highest number

The highest number is **869**

**15. Answer: A**

Given series: 632 743 421 869 578

In each number, the first and last digits were interchanged

236 347 124 968 857

We have to find out which among the following numbers is exactly divisible by four

**236 347 124 968 857**

Three numbers are divisible by four

**16. Answer: B**

Given series: 632 743 421 869 578

The third digits of all the numbers are dropped

63 74 42 86 57

Then, the first digit of each number is increased by one

The second digit of each number is subtracted by one

Then we have to find out, In how many numbers the product of these numbers are

more than nineteen

72 **83** 51 **95** **66**(Then the products digits of 83,95 and 66 are more than nineteen)

So the desired result is **three**

**17. Answer: D**

Given series: 632 743 421 869 578

The first digits of each number are dropped

32 43 21 69 78

Then, we have to find out, how many numbers become prime numbers

32 **43** 21 69 78

Only **43** is the prime number

**18. Answer: D**

Given series: 632 743 421 869 578

All the numbers are arranged in ascending order from left to the right

421 578 632 743 869

We have to find out the third number from the left end

**The third number from the left end is 632**

**Directions (19–23):**

**19. Answer: D**

**20. Answer: A**

**21. Answer: E**

**22. Answer: C**

**(Except all options, only option c shows the correct pair according to the final arrangement)**

**23. Answer: D**

**Final arrangement**

| Days             | Persons |
|------------------|---------|
| <b>Monday</b>    | Q       |
| <b>Tuesday</b>   | L       |
| <b>Wednesday</b> | N       |
| <b>Thursday</b>  | O       |
| <b>Friday</b>    | R       |
| <b>Saturday</b>  | M       |
| <b>Sunday</b>    | P       |

We have,

- Only four persons visit between L and P, where L visits the store before P.
- M visits immediately before P.
- Only two persons visit between M and N.

From the above conditions, there are two possibilities

|           | Case-1  | Case-2  |
|-----------|---------|---------|
| Days      | Persons | Persons |
| Monday    | L       |         |
| Tuesday   | N       | L       |
| Wednesday |         | N       |
| Thursday  |         |         |
| Friday    | M       |         |
| Saturday  | P       | M       |
| Sunday    |         | P       |

Again we have,

- R visits immediately after O.
- Q doesn't visit the store on Sunday.

After applying the above conditions, case-1 gets eliminated, hence case-2 shows the final arrangement

|         | <del>Case-1</del> | Case-2  |
|---------|-------------------|---------|
| Days    | Persons           | Persons |
| Monday  | L                 | Q       |
| Tuesday | N                 | L       |

|                  |   |   |
|------------------|---|---|
| <b>Wednesday</b> | O | N |
| <b>Thursday</b>  | R | O |
| <b>Friday</b>    | M | R |
| <b>Saturday</b>  | P | M |
| <b>Sunday</b>    | Q | P |

**Directions (24-25):**

**24. Answer: A**

Given series

T B \$ 4 E D # 6 A Q I G 9 ? J L P  
2 F 8 @ M & O 3 7

We have to find out the elements which are immediately preceded by a number

and immediately followed by a consonant

4 **E** D, 6 **A** Q, 9 **?** J, 8 **@** M

There are four such elements.

**25. Answer: B**

Give series:

T B \$ 4 E D # 6 A Q I G 9 ? J L P  
2 F 8 @ M & O 3 7

Even digits are dropped from the given series

T B \$ E D # A Q I G 9 ? J L P F  
@ M & O 3 7

We have to find out the third to the right of the tenth element from the right end



T B \$ E D # A Q I G 9 ? J L P F @  
M & O 3 7

F is the desired element.

**26. Answer: A**

Given series

T B \$ 4 E D # 6 A Q I G 9 ? J L P  
2 F 8 @ M & O 3 7

We have to find out the element which is fifth to the right of the third vowel from the left end.

The third vowel from the left end is I

Fifth to the right of the I is L

**27. Answer: E**

Give series:

T B \$ 4 E D # 6 A Q I G 9 ? J L P  
2 F 8 @ M & O 3 7

We have to find out the total number of numerals which are there between the fourth

The number from the right end and third number from the left end

The fourth number from the right end is 2

The third number from the left end is 9

So, Six numerals are there between 2 and 9

**28. Answer: A**

Given series:

T B \$ 4 E D # 6 A Q I G 9 ? J L P  
2 F 8 @ M & O 3 7

We have to find out the element which is exactly between the third symbol from the right

and the sixth letter from the left

The third symbol from the right is ?

The sixth letter from the letter is Q

Q I G 9 ?

So, G is exactly between ? and Q

**29. Answer: C**

Chosen letters

Second letter: A

Third letter: T

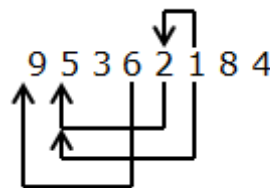
Fourth letter: E

Seventh letter: R

Word formed with the above chosen letters is TARE, RATE and TEAR

Hence, three such words can be formed

**30. Answer: D**



There are **four** pairs of digits, They are **12,15, 25 and 69**

**31. Answer: E**

Given word :P R A I S E D

After rearrangement: O Q B J R F C

No letter is repeated more than once after rearrangement

**32. Answer: C**

a) OKM -> O **N**MLK **L** M

b) HDF -> H **G**FE D **E** F

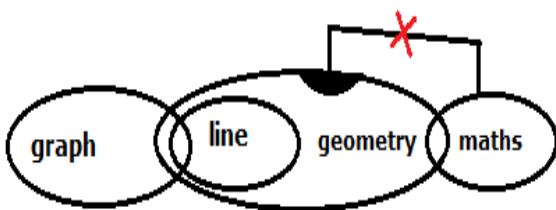
d) PLN ->P **O**NM L **M** N

e) UQS -> U **T**SR Q **R** S

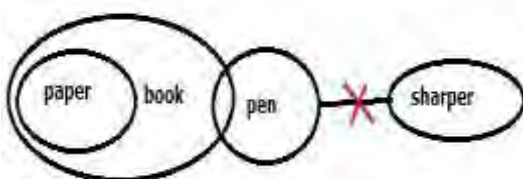
This rule is not followed in option c

Hence, option c is the odd one out

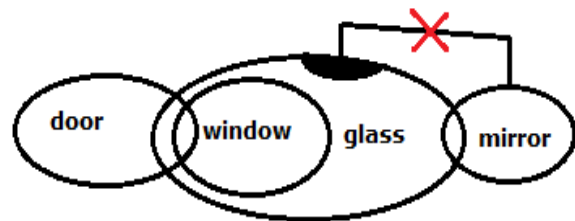
**33. Answer: B**



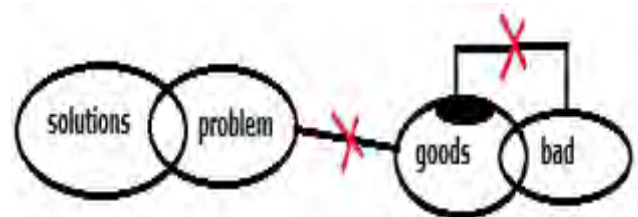
**34. Answer: D**



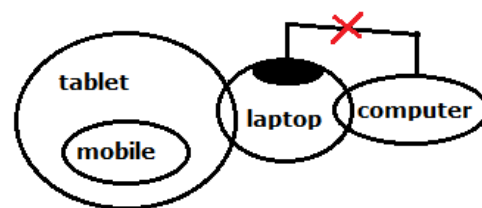
**35. Answer: B**



**36. Answer: A**



**37. Answer: D**



**38. Answer: A**

I.  $D > B \Rightarrow (B \leq E < D)$  True

II.  $B < F \Rightarrow (B \leq E < D \geq C < F)$  False

**39. Answer: B**

I.  $C \geq R - (C > G = W \leq S < E \geq R)$  - False

II.  $Y > W - (Y \geq C > G = W)$  - True

**40. Answer: E**

I.  $R > F - (R > D \geq C = F)$  - True

II.  $V \geq C - (V \geq H = U \geq F = C)$  – True

Hence, both conclusions I and II are true.

**41. Answer: C**

Total number of medium ice cream cups and large ice cream cups sold in Shop D =  $160 + 240 = 400$

Required ratio =  $400:400 = 1:1$

**42. Answer: A**

Total number of small ice cream cups and large ice cream cups sold in Shop A =  $280 + 320 = 600$

Required percentage =  $360/600 * 100 = 60\%$

**43. Answer: D**

Average number of medium ice cream cups sold in Shop B and Shop C =  $(400 + 200)/2 = 300$

Required difference =  $320 - 300 = 20$

**44. Answer: B**

Number of small ice cream cups sold in Shop E =  $360 * 5/4 = 450$

Required difference =  $675 - 450 = 225$

**45. Answer: D**

Number of large ceramic ice creams cups sold in Shop B =  $500 * 60/100 = 300$

Number of large ceramic ice creams cups sold in Shop D =  $250 * 2 - 300 = 500 - 300 = 200$

**46. Answer: A**

$130 + 8 = 138$

$138 - 13 = 125$

$125 + 8 = 133$

$133 - 13 = 120$

$120 + 8 = \mathbf{128}$

**47. Answer: D**

$80 + 23 = 103$

$103 + 29 = 132$

$132 + 31 = 163$

$163 + 37 = 200$

$200 + 41 = \mathbf{241}$

**48. Answer: B**

$40 + 20 = 60$

$60 + 24 = 84$

$84 + 28 = 112$

$112 + 32 = 144$

$144 + 36 = \mathbf{180}$

**49. Answer: E**

$36 + 2^2 = 40$

$40 + 3^2 = 49$

$$49 + 4^2 = 65$$

$$65 + 5^2 = 90$$

$$90 + 6^2 = \mathbf{126}$$

**50. Answer: C**

$$16 * 0.5 = 8$$

$$8 * 1 = 8$$

$$8 * 2 = 16$$

$$16 * 4 = 64$$

$$64 * 8 = \mathbf{512}$$

**Directions (51-53)**

Total number of English books available =  $400 * \frac{7}{(7-5)} = 400 * \frac{7}{2} = 1400$

Total number of Hindi books available =  $400 * \frac{5}{(7-5)} = 1000$

Number of non-fictional books available in English =  $1400 * \frac{75}{100} = 1050$

Number of fictional books available in English =  $1400 - 1050 = 350$

Number of non-fictional books available in Hindi =  $1050 * \frac{4}{7} = 600$

Number of fictional books available in Hindi =  $1000 - 600 = 400$

Total number of fictional books available =  $350 + 400 = 750$

Total number of non-fictional available =  $1050 + 600 = 1650$

| Language     | Fictional  | Non-fictional | Total       |
|--------------|------------|---------------|-------------|
| English      | 350        | 1050          | 1400        |
| Hindi        | 400        | 600           | 1000        |
| <b>Total</b> | <b>750</b> | <b>1650</b>   | <b>2400</b> |

**51. Answer: C**

Required difference =  $1650 - 1000 = 650$

**52. Answer: A**

Required ratio =  $350 : 400 = 7 : 8$

**53. Answer: D**

Number of thriller fiction Hindi books =  $400 * \frac{3}{5} = 240$

Required sum =  $240 + 600 = 840$

**54. Answer: C**

Let five consecutive even numbers are  $x, x+2, x+4, x+6$  and  $x+8$ .

Average of the 5 consecutive even numbers =  $\frac{130}{5} = 26$

So, 3<sup>rd</sup> number  $(x+4) = 26$

2<sup>nd</sup> number = 24

5<sup>th</sup> number = 30

Required average =  $\frac{(24 + 30)}{2} = 27$

**55. Answer: A**

Let the speed of the car be  $y$  km/hr

$$480/(y * 80/100) - 480/y = 2$$

$$480/(4y/5) - 480/y = 2$$

$$2400/4y - 480/y = 2$$

$$600/y - 480/y = 2$$

$$120/y = 2$$

$$y = 60 \text{ km/hr}$$

Therefore, the original speed of the car =  $y = 60 \text{ km/hr}$

**56. Answer: A**

Let the cost price of the watch be Rs.x

$$x * 150/100 * 75/100 * 80/100 = x - 200$$

$$x * 3/2 * 3/4 * 4/5 = x - 200$$

$$9x/10 = x - 200$$

$$9x = 10x - 2000$$

$$x = \text{Rs.}2000$$

Therefore, the cost price of the watch = Rs.2000

**57. Answer: C**

Initial quantity of milk =  $150 * 8/15 = 80$  liters

Initial quantity of water =  $150 - 80 = 70$  liters

According to question,

$$(80 - 60 * 8/15)/(70 - 60 * 7/15 + x) = 4/5$$

$$(80 - 32)/(70 - 28 + x) = 4/5$$

$$48/(42 + x) = 4/5$$

$$240 = 168 + 4x$$

$$72 = 4x$$

$$x = 18$$

**58. Answer: D**

According to question,

$$(5 * x)/(4 * y) = (2300 - 800)/800$$

$$5x/4y = 15/8$$

$$x/y = 3/2$$

Required ratio = 3: 2

**59. Answer: C**

$$60/100 * 350 - 80/100 * 120 = ? * 3$$

$$210 - 96 = ? * 3$$

$$114 = ? * 3$$

$$? = 38$$

**60. Answer: E**

$$(15 * 8) + (16 * 20) - 18^2 = ?$$

$$120 + 320 - 324 = ?$$

$$? = 116$$

**Directions (61-65)**

The savings of A =  $8000 - 6000 = \text{Rs.}2000$

The savings of B =  $12000 - 8000 = \text{Rs.}4000$

The savings of C =  $9000 - 6000 = \text{Rs.}3000$

The savings of D =  $14000 - 9000 = \text{Rs.}5000$

The savings of E =  $11000 - 6500 = \text{Rs.}4500$

| Names | Income<br>(in Rs.) | Expend<br>-iture<br>(in Rs.) | Savings<br>(in Rs.) |
|-------|--------------------|------------------------------|---------------------|
| A     | 8000               | 6000                         | 2000                |
| B     | 12000              | 8000                         | 4000                |
| C     | 9000               | 6000                         | 3000                |
| D     | 14000              | 9000                         | 5000                |
| E     | 11000              | 6500                         | 4500                |

**61. Answer: D**

Required percentage =  $6000:4500 = 4:3$

**62. Answer: B**

The expenditure of F =  $6500 * \frac{3}{5} =$   
Rs.3900

Required percentage =  $\frac{3900}{6000} * 100 = 65\%$

**63. Answer: A**

Required percentage =  $\frac{(8000 - 5000)}{5000} * 100 = \frac{3000}{5000} * 100 =$   
60% more

**64. Answer: D**

Required difference =  $9000 - 2000 =$   
Rs.7000

**65. Answer: C**

The new income of B =  $12000 * \frac{125}{100} =$  Rs.15000

And the new expenditure of B =  $8000 + 3000 =$  Rs.11000

Therefore, the new savings of B =  $15000 - 11000 =$  Rs.4000

**66. Answer: A**

According to question,  
 $\frac{(4x - 50)}{(3x + 50)} = \frac{3}{4}$

$$16x - 200 = 9x + 150$$

$$7x = 350$$

$$x = 50$$

The number of students left in school

$$A = 4 * 50 - 50 = 200 - 50 = 150$$

**67. Answer: C**

Let the age of Putin = a

And the age of Shyam = a + 15

And the age of Rohit = a - 10

$$\frac{(a + 15)}{(a - 10)} = \frac{9}{4}$$

$$4a + 60 = 9a - 90$$

$$5a = 150$$

$$a = 30$$

The age of Putin = 30 years

And the age of Rohit =  $30 - 10 = 20$   
years

Required average =  $\frac{(30 + 20)}{2} = \frac{50}{2} = 25$  years

**68. Answer: D**

The upstream speed of the boat =  $\frac{120}{6} = 20$  km/hr

According to question,

$$5x - 1x = 20$$

$$4x = 20$$

$$x = 5$$

The speed of the boat in still water =

$$5 * 5 = 25 \text{ km/hr}$$

$$\text{Required time} = 100/25 = 4 \text{ hours}$$

**69. Answer: B**

The side of the square field =  $1056/12$

$$* 1/4 = 22 \text{ m}$$

The length of the rectangle = 22 m

$$\text{The breadth of the rectangle} = 22 + 3 = 25 \text{ m}$$

$$\text{The area of the rectangle} = 22 * 25 = 550 \text{ m}^2$$

**70. Answer: D**

$$\text{Let B alone complete the work} = 1/18 - 1/24 = 4/72 - 3/72 = 1/72$$

$$\text{And C alone complete the work} = 1/24 - 1/72 = 3/72 - 1/72 = 2/72 = 1/36 = 36 \text{ days}$$

**Directions (71-75)**

**71. Answer: D**

$$11\% \text{ of } 200 + 40\% \text{ of } 250 = ? + 42$$

$$11 * 200/100 + 40 * 250/100 = ? + 42$$

$$? = 22 + 100 - 42$$

$$? = 80$$

**72. Answer: B**

$$?^2 + 90 \div 6 = 13 * 5 + 119$$

$$?^2 + 15 = 65 + 119$$

$$?^2 + 15 = 184$$

$$?^2 = 184 - 15$$

$$?^2 = 169$$

$$?^2 = 13^2$$

$$? = 13$$

**73. Answer: C**

$$(221 + 29 + ?) \div 10 = 120 \div 3$$

$$221 + 29 + ? = 40 * 10$$

$$250 + ? = 400$$

$$? = 400 - 250$$

$$? = 150$$

**74. Answer: A**

$$\sqrt{484 + ?} - \sqrt{225} = \sqrt[3]{125} * 6$$

$$22 + ? - 15 = 5 * 6$$

$$22 + ? = 30 + 15$$

$$? = 45 - 22$$

$$? = 23$$

**75. Answer: C**

$$1/2 + 3/8 - 1/4 + ? = 5/8 + 3/4$$

$$4/8 + 3/8 - 2/8 + ? = 5/8 + 6/8$$

$$5/8 + ? = 11/8$$

$$? = 6/8$$

$$? = 3/4$$

**76. Answer: D**

$$\sqrt{(42 + 100 + 3^3)} * ? = 195 * 2$$

$$\sqrt{(142 + 27)} * ? = 390$$

$$\sqrt{169} * ? = 390$$

$$? = 390/13$$

$$? = 30$$

**77. Answer: E**

$$25\% \text{ of } 300 + ? = 6\% \text{ of } 2500$$

$$25 * 300/100 + ? = 6 * 2500/100$$

$$75 + ? = 150$$

$$? = 75$$

**78. Answer: B**

$$\sqrt[3]{343} + \sqrt{729} = ? \div 5 + \sqrt{196}$$

$$7 + 27 = ? \div 5 + 14$$

$$? \div 5 = 34 - 14$$

$$? = 20 * 5$$

$$? = 100$$

**79) ?% of 420 + 128 = 340 ÷ 2**

a) 10

b) 8

c) 17

d) 9

e) 16

**79. Answer: A**

$$?\% \text{ of } 420 + 128 = 340 \div 2$$

$$? * 420/100 + 128 = 170$$

$$? * 42/10 = 42$$

$$? = 42 * 10/42$$

$$? = 10$$

**80. Answer: C**

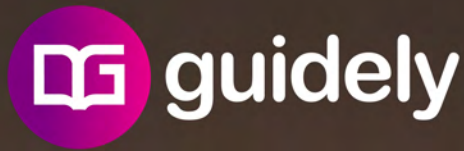
$$505 - 110 - \sqrt{625} = ? + 215$$

$$505 - 110 - 25 = ? + 215$$

$$? = 370 - 215$$

$$? = 155$$





# ENGLISH VOCABULARY

MARCH 2023



**1 INTRANSIGENT ( ADJECTIVE, NOUN )**

Refusing to change an opinion

**Synonyms** : Uncompromising, Inflexible

**Antonyms** : Compliant, Flexible

**Example** Her father had tried persuasion, but she was intransigent.

"NO, AND THAT IS FINAL!"

**INTRANSIGENT**



**2 DIATRIBES ( NOUN )**

Angry speeches or pieces of writing that severely criticizes something or someone.

**Synonyms** : Tirade, Harangue

**Antonyms** : compliment, recommendation

**Example** A tirade against consumerism.



**3 ENSHRINED ( VERB )**

To officially record something such as an idea or principle in a document so that it cannot be ignored.

**Synonyms** : Set down, Incorporate, Embody

**Antonyms** : Unholy, Unsanctified

**Example** Relics are enshrined under altars.



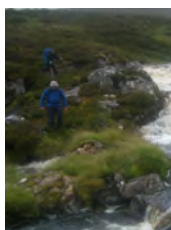
**4 SPATE ( NOUN )**

A large number of things that appear or happen in a short period of time.

**Synonyms** : Series, succession, Run

**Antonyms** : Scarcity, Imperfect

**Example** A spate of attacks on minority people



**5 MARRED ( VERB )**

Damaged something or made something less good or successful.

**Synonyms** : Spoil, Ruin

**Antonyms** : Improve, Enhance

**Example** She marred her father's reputations.



**6 UPPEd THE ANTE ( IDIOM )**

Increased your demands or the risks in a situation in order to achieve a better result.

**Example** He decided to up the ante in the trade war.



**7 PULLED THE PLUG ON ( IDIOM )**

Prevented something from happening or continuing

**Example** The company pulled the plug on the deal because it was not giving the profit



**8 SPECTRE ( NOUN )**

Something unpleasant that people are afraid might happen in the future.

**Synonyms** : Threat, Ghost, Menace

**Antonyms** : Reality, Being

**Example** The spectre of nuclear holocaust



**9 SPELL ( NOUN )**

A period of time for which an activity or condition lasts continuously.

**Synonyms** : Curse, Enchant, Strike, Charm

**Antonyms** : Contradict, Disaffirm

**Example** Come rest a spell



**10 BELIES ( VERB )**

To show that something cannot be true or correct.

**Synonyms** : Be at odds with, Contradict

**Antonyms** : Reveal, Testify to

**Example** He belied in front of his friends.



**11 OUTLOOK ( NOUN )**

The likely future situation

**Synonyms** : Point of view, standpoint

**Antonyms** : Past, Indifferent

**Example** He had a practical outlook on life.



**16 BEGGARS ( NOUN, VERB )**

To make somebody/something very poor.

**Synonyms** : Fellow, Tramp

**Antonyms** : Rich, Wealthy

**Example** Poor little beggars



**12 ENGENDER ( VERB )**

To cause something to come into existence.

**Synonyms** : Produce, beget, generate

**Antonyms** : Destroy, Clamp down (on), Extinguish

**Example** The issue engendered continuing controversy.



**17 CYNICISM ( NOUN )**

The belief that people are only interested in themselves and are not sincere.

**Synonyms** : Pessimism, Dubious

**Antonyms** : Optimism

**Example** Public cynicism about change is understandable.



**13 TENUOUS ( ADJECTIVE )**

So weak or uncertain that it hardly exists.

**Synonyms** : Flimsy, Insubstantial

**Antonyms** : Strong, Convincing

**Example** A tenuous cloud



**18 DWINDLE ( VERB )**

To become gradually less or smaller.

**Synonyms** : Diminish, Fall off

**Antonyms** : Increase, Flourish

**Example** The price of fruits dwindled



**14 DYSFUNCTIONAL ( ADJECTIVE )**

Not working or behaving normally.

**Synonyms** : Flawed, Defective

**Antonyms** : Cooperative, Functional

**Example** The machines are dysfunctional.



**19 QUEERING THE PITCH ( IDIOM )**

Ruining, spoiling, or undermining one's efforts, plans, or ideas.

**Example**

The idea appears to be to target perceived luxury goods, while not queering the pitch for exports



**15 OVERLOOKED ( VERB )**

Failed to notice or consider something or someone.

**Synonyms** : Leave, Miss

**Antonyms** : Spot, Notice

**Example** He overlooked the report.



**20 QUAGMIRE ( NOUN )**

An awkward, complex situation.

**Synonyms** : Muddle, Bog

**Antonyms** : Freeing, Disentanglement

**Example** A legal quagmire



**21 MARAUDING ( VERB )**

Going in about search of things to steal or people to attack.

**Synonyms** : Foray, Raid, Ravage

**Antonyms** : Aid, Protect, Guard

**Example** Witnesses reported gangs of marauding soldiers breaking into people house.



**22 RAUCOUS ( ADJECTIVE )**

Loud and unpleasant

**Synonyms** : Harsh, Strident

**Antonyms** : Peaceful, Quiet

**Example** I heard the raucous call of the crows



**23 BLIGHT ( NOUN )**

To spoil or damage something, especially by causing a lot of problems.

**Synonyms** : Scourge, Bane, Damage

**Antonyms** : Blessing

**Example** An area blighted by unemployment.



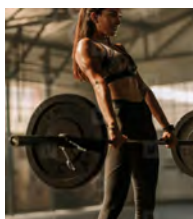
**24 DOGGED ( ADJECTIVE )**

Having or showing tenacity and grim persistence.

**Synonyms** : Determined, Resolute

**Antonyms** : Hesitant, Half-hearted

**Example** Success required dogged determination.



**25 PINNACLE ( NOUN )**

The most successful point; the culmination

**Synonyms** : Peak, Height

**Antonyms** : Nadir, Trough

**Example** He had reached the pinnacle of his career.



**26 PRELUDE ( NOUN, VERB )**

An action or event serving as an introduction to something more important.

**Synonyms** : Preliminary, Overture

**Antonyms** : Conclusion, Ending

**Example** The bombardment prelude an all-out final attack



**27 CULLS ( VERB )**

Reduce the population of a wild animal by selective slaughter

**Synonyms** : Kill, Destroy

**Antonyms** : Insert, Put in

**Example** He sees culling deer as a necessity.



**28 ENSCONCED ( VERB )**

Establish or settle someone in a comfortable, safe place

**Synonyms** : Settle, Install, Establish

**Antonyms** : Displace, Disorder

**Example** Agnes ensconced herself in their bed-



**29 ENFORCED ( VERB )**

Cause something to happen by necessity or force.

**Synonyms** : Impose, Apply

**Antonyms** : Refuse, Deter

**Example** The role of the police is to enforce the law



**30 INCLEMENT ( ADJECTIVE )**

Of the weather unpleasantly cold or wet.

**Synonyms** : Chilly, Bleak, Bitter

**Antonyms** : Mild, Sunny

**Example** Walkers should be prepared for inclement weather



**31 IMMOLATED ( VERB )**

Kill or offer as a sacrifice, especially by burning.

**Synonyms** : Burn

**Antonyms** : Fight, Reject

**Example** Vast number of animals immolated by Chinese



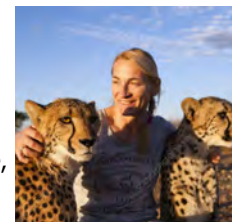
**36 TAME ( ADJECTIVE, VERB )**

Of an animal not dangerous or frightened of people.

**Synonyms** : Domesticated, Docile, Gentle

**Antonyms** : Wild, Fierce

**Example** Wild rabbits can be kept in captivity and eventually tamed.



**32 ENRAPTURE ( VERB )**

Give intense pleasure or joy to

**Synonyms** : Delight, Ravish

**Antonyms** : Repel

**Example** We are enraptured by child



**37 ZESTY ( ADJECTIVE )**

Having a strong, pleasant, and somewhat spicy flavor.

**Synonyms** : Spicy, Piquant, Pungent

**Antonyms** : Apathetic, Inactive

**Example** A zesty sauce.



**33 CONSIGNMENT ( NOUN )**

A batch of goods delivered to someone.

**Synonyms** : Shipment, Load

**Antonyms** : Acquire, Receive, Obtain

**Example** Levels of consignment running below



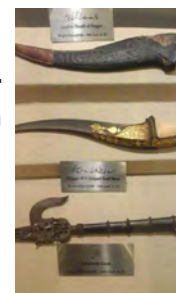
**38 RELIC ( NOUN )**

An object surviving from an earlier time, especially one of historical interest.

**Synonyms** : Remains, Artifacts, Historical object

**Antonyms** : Newness, New, Now

**Example** A museum of railway relics



**34 PREDICAMENT ( NOUN )**

A difficult ,unpleasant situation

**Synonyms** : Trouble, Crisis

**Antonyms** : Advantage, Boon

**Example** The club's financial predicament



**39 CAJOLE ( VERB )**

Persuade someone to do something by sustained flattery

**Synonyms** : Coax, Lure, Manoeuvre

**Antonyms** : Bully

**Example** He hoped to cajole her into selling the watch



**35 DEBUNK ( VERB )**

Expose the falseness of an idea or belief

**Synonyms** : Deflate, Explode

**Antonyms** : Confirm

**Example** Comedy takes delight in debunking heroes



**40 BLOCKADING ( VERB )**

Seal off a place to prevent goods or people from entering or leaving

**Synonyms** : Barricade, bar, lay siege to

**Antonyms** : Cleared, Navigable

**Example** The police blockaded roads in and out of the capital



**41 PERTURB ( ADJECTIVE )**

Feeling anxiety or concern

**Synonyms** : Disquiet, Upset

**Antonyms** : Calm, Unperturbed

**Example** She did not feel perturbed about the jobless



**46 ALIENABLE ( ADJECTIVE )**

Able to be transferred to new ownership

**Synonyms** : Assignable, Negotiable

**Antonyms** : Inalienable, Unalienable

**Example** The property of the Ravi is alienated to his son because of his age old



**42 PLACID ( ADJECTIVE )**

Not easily upset or excited; calm and peaceful, with little movement

**Synonyms** : Tranquil, Quiet

**Antonyms** : Excitable, Temperamental

**Example** The placid waters of a small lake



**47 PLIABLE ( ADJECTIVE )**

Easily bent; easily influenced

**Synonyms** : Flexible, Malleable

**Antonyms** : Rigid, Obdurate

**Example** Pliable teenage minds



**43 INEXORABLE ( ADJECTIVE )**

Impossible to stop or prevent; of a person impossible to persuade

**Synonyms** : Relentless, Unstoppable, Intransigent

**Antonyms** : Lenient, Bending, Flexible

**Example** The doctor was inexorable to discharge the patient



**48 DISSUADING ( VERB )**

Persuade someone not to take a particular course of action

**Synonyms** : Deter, Discourage

**Antonyms** : Persuade

**Example** Fear dissuading everyone



**44 EXPEDITION ( NOUN )**

A journey taken by a group of people with a particular purpose

**Synonyms** : Tour, Voyage

**Antonyms** : Halt, Hindrance

**Example** An expedition to the jungle



**49 ENSNARE ( VERB )**

Catch in or as in a trap

**Synonyms** : Capture, Seize

**Antonyms** : Release

**Example** The sparrow ensnared by the man



**45 DELECTABLE ( ADJECTIVE )**

Of food or drink delicious; extremely attractive

**Synonyms** : Tasty, Yummy, Delightful

**Antonyms** : Unpalatable

**Example** Delectable handmade sweets



**50 INSINUATION ( NOUN )**

An unpleasant hint or suggestion of something bad

**Synonyms** : Implication, Inference

**Antonyms** : Conceal, Withhold

**Example** I have done nothing because of your insinuation



**51 SLANDER ( NOUN, VERB )**

Make false and damaging statements about someone.

**Synonyms** : Defamation

**Antonyms** : Commendation, Compliment

**Example** He is accused of slandering the head of the department.



**56 TEPID ( ADJECTIVE )**

Showing little enthusiasm; a liquid only a slightly warm.

**Synonyms** : Lukewarm

**Antonyms** : Apathetic, Unenthusiastic

**Example** The applause was tepid.



**52 RESUSCITATE ( VERB )**

Bring back someone from unconsciousness; make something active again.

**Synonyms** : Resurrect, Revive

**Antonyms** : Quenched, Suppressed

**Example** Measures to resuscitate the ailing economy



**57 APATHETIC ( ADJECTIVE )**

Lack of interest

**Synonyms** : Indifferent, Uninterested

**Antonyms** : Enthusiastic, Eager

**Example** An apathetic electorate



**53 TANTALIZING ( ADJECTIVE )**

Tormenting or teasing with the sight or promise of something that is unobtainable; excite the sense/desires of someone.

**Synonyms** : Torture, Entice, Intransigent

**Antonyms** : Make happy

**Example** She still tantalized him



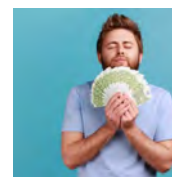
**58 AVARICIOUS ( ADJECTIVE )**

Having or showing an extreme greed for wealth or material gain.

**Synonyms** : Covetous, Grasping

**Antonyms** : Generous

**Example** Avaricious corporate owners looking to maximize profits



**54 RESILIENT ( ADJECTIVE )**

Of a person or animal able to withstand or recover quickly from difficult conditions.

**Synonyms** : Strong, Adaptable

**Antonyms** : Vulnerable

**Example** A shoe with resilient cushioning



**59 PREDILECTION ( NOUN )**

A preference or special liking for something.

**Synonyms** : Fondness, Inclination

**Antonyms** : Dislike, Disinclination

**Example** My predilection for Asian food.



**55 EXERTION ( NOUN )**

Physical or mental effort; the application of a force, influence, or quality.

**Synonyms** : Strain, Effort, Use

**Antonyms** : Indolence, Inactivity

**Example** She was painting with exertion



**60 ALLAY ( VERB )**

Relieve or alleviate pain or hunger.

**Synonyms** : Reduce, Diminish

**Antonyms** : Increase, Intensify

**Example** Insurance policy has allayed many families by giving support



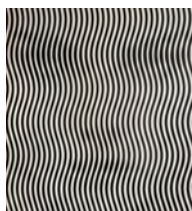
**61 CONJURING ( NOUN )**

The performance of tricks which are seemingly magical; cause someone to think of something

**Synonyms** : Illusion, Deception

**Antonyms** : Disgust, Disenchant

**Example** A conjuring trick



**62 SPEWED ( VERB )**

Expel large quantities of something rapidly and forcibly

**Synonyms** : Emit, Discharge

**Antonyms** : Contained

**Example** Buses were spewing out black clouds of exhaust



**63 BEQUEATH ( VERB )**

Leave a property to a person or other beneficiary by a will; pass something on or leave something to someone else.

**Synonyms** : Hand on, Pass on

**Antonyms** : Take, Receive

**Example** He bequeathed his property to his son



**64 RECOURSE ( NOUN )**

A source of help in a difficult situation.

**Synonyms** : Option, possibility, Alternative

**Antonyms** : Blockage, Obstruction

**Example** Surgery may be the only recourse



**65 PRUDENT ( ADJECTIVE )**

Acting with or showing care and thought for the future

**Synonyms** : Wise, Judicious

**Antonyms** : Imprudent, Incautious

**Example** The judge acted wisely.



**66 STARTLE ( VERB )**

Cause to feel sudden shock or alarm.

**Synonyms** : Surprise, Scared

**Antonyms** : Bored, Indifferent

**Example** A sudden sound startled her



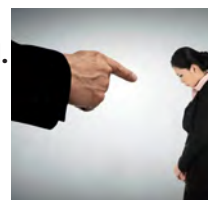
**67 REPRIMAND ( NOUN, VERB )**

A formal expression of disapproval.

**Synonyms** : Rebuke, Admonish

**Antonyms** : Compliment, Praise

**Example** He showed his reprimand for abroad study



**68 ABSCOND ( VERB )**

Leave secretly and hurriedly, typically to escape from custody or avoid arrest.

**Synonyms** : Run away, Escape

**Antonyms** : Appear, Arrive

**Example** Vijay mallya absconded



**69 ABHOR ( VERB )**

Regard with disgust and hatred

**Synonyms** : Loathe, Hate

**Antonyms** : Love, Admire

**Example** He abhorred milk in every form



**70 RAVE ( VERB, NOUN )**

Talk incoherently, as if one were mad; speak/write about someone/ something with great enthusiasm.

**Synonyms** : Babble, Rapturous

**Antonyms** : Criticize, Condemn

**Example** Their tour received rave reviews





**71 OVERHAUL ( VERB, NOUN )**

Overtake someone, especially in a sporting event; a thorough examination of machinery or a system, with repairs or changes made if necessary.

**Synonyms** : Overtake, Maintain, Repair

**Antonyms** : Break, Damage, Destroy

**Example** Ravi overhauled his chief rival



**76 CORNERSTONE ( NOUN )**

Something of great importance that everything else depends on.

**Synonyms** : Basis, Keystone

**Antonyms** : Abolish

**Example** A national minimum wage remained the cornerstone of policy.



**72 OSTRACIZE ( VERB )**

Exclude from a society or group.

**Synonyms** : Exclude, Shun

**Antonyms** : Befriend

**Example** He was ostracized by villagers



**77 EXTOLLING ( VERB )**

Praising highly.

**Synonyms** : Acclaim, Laud

**Antonyms** : Criticize

**Example** The boy was extolled by his mother



**73 DEJECTED ( ADJECTIVE )**

Sad and depressed; dispirited.

**Synonyms** : Downcast, Downhearted

**Antonyms** : Cheerful, Happy

**Example** He felt dejected when his dog died



**78 PANACEA ( NOUN )**

Something that will solve all problems or cure all illnesses.

**Synonyms** : Cure-all, Heal-all

**Antonyms** : Disease, Injury

**Example** The panacea for all corporate ills.



**74 WANTON ( VERB )**

Causing harm or acting without showing care for others, often intentionally.

**Synonyms** : Deliberate, Malicious

**Antonyms** : Gentle, Careful

**Example** Sheer wanton vandalism



**79 CONTENTIOUS ( ADJECTIVE )**

Causing, involving, or likely to disagreement and argument.

**Synonyms** : Controversial, Disputable

**Antonyms** : Calm, Uncontroversial

**Example**  
A contentious issue



**75 BLIGHTS ( NOUN, VERB )**

Things that spoils, destroys or causes damage.

**Synonyms** : Ruin, Wreck

**Antonyms** : Blessing

**Example** The plant is blighted by insects



**80 DISCOURSE ( NOUN )**

A long and serious treatment or discussion of a subject in speech or writing.

**Synonyms** : Discussion, Conversation

**Antonyms** : Agree, Ignore

**Example** They have a discussion



**81 RUCKUS ( NOUN )**

A noisy situation or argument.

**Synonyms** : Fray, Clash, Altercation

**Antonyms** : Harmony, Peace



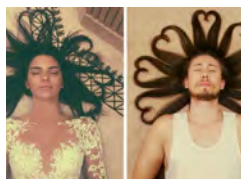
**Example** The ruckus between China and India

**82 PARODYING ( VERB )**

Copying the style of somebody/ something in an exaggerated way, especially in order to make people laugh.

**Synonyms** : Satirize, Lampoon

**Antonyms** : Truth, Praise



**Example** He parodied his friend's voice

**83 ONUS ( NOUN )**

The responsibility or duty to do something.

**Synonyms** : Liability, Duty

**Antonyms** : Irresponsibility



**Example** All people have to vote is our onus

**84 CONCILIATORY ( ADJECTIVE )**

Having the intention or effect of making angry people calm.

**Synonyms** : Pacify, Placatory

**Antonyms** : Antagonistic



**Example** A conciliatory approach

**85 VITUPERATIVE ( ADJECTIVE )**

Criticizing in a cruel and angry way.

**Synonyms** : Bitter, Abusive

**Antonyms** : Exaltation



**Example** A vituperative outburst

**86 BELLWETHER ( NOUN )**

A particular event, results, etc. that usually shows how a more general situation will develop or change.

**Synonyms** : Front runner, Leader, Pioneer

**Antonyms** : Follower



**Example** He is bellwether for all to obtain positive energy

**87 SOLICITING ( VERB )**

Asking for something in a persuasive and determined way.

**Synonyms** : Request, Beg

**Antonyms** : Dodge, Ignore



**Example** The boy begged the help from unknown person

**88 FLAGGING ( ADJECTIVE )**

Warning or telling people about something that is important or is a problem.

**Synonyms** : Point out, Label, Identify

**Antonyms** : Strong, Powerful



**Example** She wants to revive her flagging career

**89 STARKLY ( ADJECTIVE )**

Very obvious and clearly.

**Synonyms** : Severe, austerely, Stubborn

**Antonyms** : Mild, Gentle



**Example** The scar stood out starkly against his bronzed skin

**90 GRAVE ( ADJECTIVE )**

Very serious and important; giving you a reason to feel worried.

**Synonyms** : Burial

**Antonyms** : Trivial, Cheerful



**Example** They used to visit her grave twice a year

**91 ADVOCACY ( NOUN )**

Public support for an idea, plan, or way

**Synonyms** : Recommending, Promoting

**Antonyms** : Reject



**Example** His outspoken advocacy of the agreement has won no friends

**92 PROVOCATION ( NOUN )**

An action or statement that is intended to make someone angry.

**Synonyms** : Prodding, Incitement

**Antonyms** : Pacify



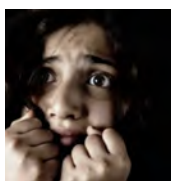
**Example** You should remain calm and not response to provocation

**93 HYSTERIA ( NOUN )**

Extreme fear, excitement, anger, etc. that cannot be controlled.

**Synonyms** : Wildness, Irrationality

**Antonyms** : Calmness



**Example** Wartime hysteria led to many unfair accusations

**94 CALCULUS ( NOUN )**

A way of calculating, judging, or deciding something in a complicated situation.

**Synonyms** : Computation, Calculation

**Antonyms** : Decrease



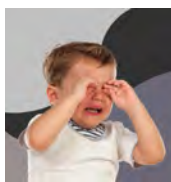
**Example** Budget calculus is very important

**95 COURTING ( VERB )**

Trying to get something, especially attention or support from other people.

**Synonyms** : Woo, make up to, Cultivate

**Antonyms** : Disrespect, Reject



**Example** Child courting the parents

**96 DENIGRATED ( VERB )**

Said somebody/something did not have any value or was not important.

**Synonyms** : Disparage, Diminish

**Antonyms** : Extol



**Example** Doom and gloom merchants who denigrate their own country.

**97 CHAUVINISTIC ( ADJECTIVE )**

Displaying excessive or prejudiced support for one's own cause or group.

**Synonyms** : Patriotic, Nationalistic

**Antonyms** : Just, Broad-minded



**Example** A chauvinistic attitude towards other countries.

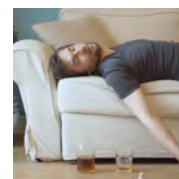
**98 STUPOR ( NOUN )**

A state in which a person is almost unconscious and their thoughts are not clear.

**Synonyms** : Inertia, Oblivion

**Antonyms** : Understanding, Clearness

**Example** A drunken stupor



**99 DILEMMA ( NOUN )**

A situation in which a difficult choice has to be made between two different things you could do.

**Synonyms** : Quandary, Predicament

**Antonyms** : Ease, Adroitness

**Example**

The insoluble dilemma of adolescence



**100 RUSTIC ( ADJECTIVE )**

Relating to the countryside; rural; made in plain and simple

**Synonyms** : Plain, Simple, Homely

**Antonyms** : Fancy, Elaborate

**Example** The place feels rustic and the atmosphere is great.

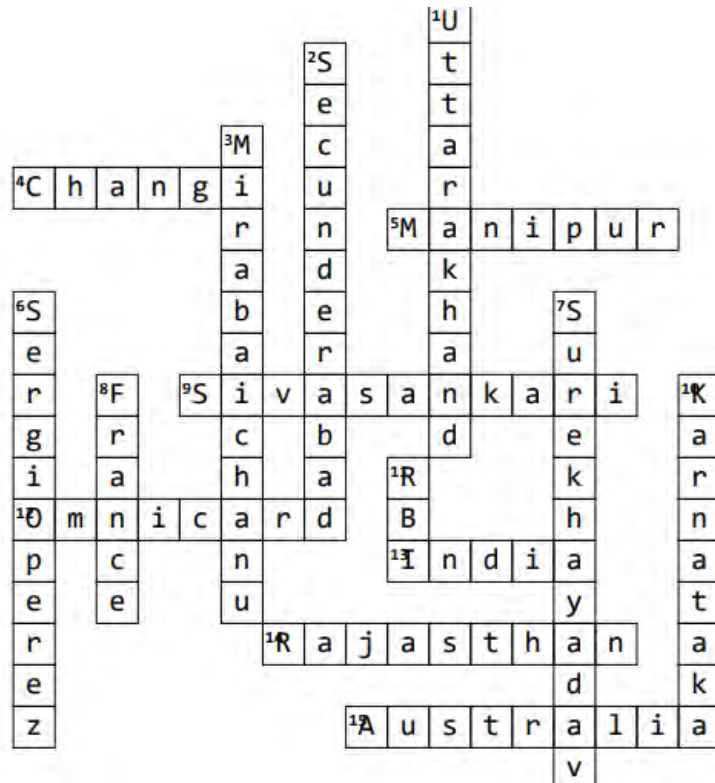


Current Affairs

# CROSSWORD

ANSWERS

PUZZLE



**Across**

- 4** World's Best Airport of 2023
- 5** Yaoshang festival
- 9** Saraswati Samman Awardee 2022
- 12** Unified Payments Interface (UPI) services without the need to link a Bank Account for its users
- 13** Hosted the first meeting of the Governing Board of BIMSTEC Energy Centre (BEC)
- 14** Venue of 13th edition of Exercise Bold Kurukshetra
- 15** Winner of ICC Women's Twenty20 World Cup 2023

**Down**

- 1** India's 1st government 'Mother Milk Bank'
- 2** First Bharat Gaurav special tourist train will commence its journey
- 3** BBC Indian Sportswoman of the Year (ISWOTY) award
- 6** Winner of Saudi Arabian Grand Prix 2023
- 7** Asia's first female locomotive pilot to operate the newly-introduced semi-high-speed Vande Bharata Express train
- 8** FRINJEX-23 between Indian Army and
- 10** Winner of Santosh Trophy football
- 11** Mission 'Har Payment Digital'