

## All India Mock for SEBI Grade A 2024 Phase 1 Paper 1 (13-14 April)

**Q1. In February 2024, Yemen's Presidential Leadership Council announced the appointment of Ahmed Awad bin Mubarak as the new prime minister. Who will Ahmed Awad bin Mubarak replace as Yemen's prime minister?**

- (a) Maeen Abdulmalik Saeed
- (b) Khaled Bahah
- (c) Ali Abdullah Saleh
- (d) Abd Rabbuh Mansur Hadi
- (e) Ali Mohsen al-Ahmar

**Q2. In February 2024, which institution is collaborating with Munitions India Limited, a Defence Public Sector Enterprise, to develop India's first indigenously-designed 155 Smart Ammunition, aiming to significantly enhance accuracy and lethality in the defence sector?**

- (a) Indian Institute of Technology Roorkee (IIT Roorkee)
- (b) Indian Institute of Technology Madras (IIT Madras)
- (c) Indian Institute of Technology Dharwad (IIT Dharwad)
- (d) Indian Institute of Technology Bhilai (IIT Bhilai)
- (e) Indian Institute of Technology Jodhpur (IIT Jodhpur)

**Q3. Which ministry is responsible for implementing the PM-POSHAN scheme, previously known as the mid-day meal scheme, aimed at improving the nutritional status of adolescent girls, pregnant women, and lactating mothers across all States/UTs in India?**

- (a) Ministry of Women and Child Development
- (b) Ministry of Health and Family Welfare
- (c) Ministry of Rural Development
- (d) Ministry of Education
- (e) Ministry of Agriculture and Farmers Welfare

**Q4. According to the IIRF Top B-Schools ranking (Pvt.) 2024, which of the following is ranked among the top MBA colleges in India (In February 2024) under the private category?**

- (a) SPJIMR-S P Jain Institute of Management & Research, Mumbai
- (b) MDI-Management Development Institute, Gurgaon
- (c) SIBM-Symbiosis Institute of Business Management, Pune
- (d) Xaviers Institute of Management, Bhubaneswar
- (e) Xavier Labour Relations Institute, Jamshedpur

**Q5. In the fiscal year 2023-24, the Ministry of External Affairs provided financial support to the Exim Bank of India after the bank classified loans extended to some countries as "doubtful debt." How much did the Ministry allocate (In February 2024) to the bank upon invoking the Government of India's guarantee on these loans?**

- (a) Rs 9,535.89 crore
- (b) Rs 9,013.72 crore
- (c) Rs 9,130.56 crore
- (d) Rs 9,108 crore
- (e) Rs 9,252.79 crore

**Q6. In January 2024, SBI Life Insurance introduced two new products aimed at providing life cover along with the benefit of premium return at maturity, underscoring the vital link between insurance and financial well-being. What are the names of these two products?**

- (a) SBI Life - Saral Swadhan Supreme and SBI Life - Smart Swadhan Supreme
- (b) SBI Life - Smart Wealth Builder and SBI Life - Saral Pension
- (c) SBI Life - Saral Jeevan and SBI Life - Smart Shield
- (d) SBI Life - Smart Income Protect and SBI Life - Saral Income Protect
- (e) SBI Life - Smart Money Back Gold and SBI Life - Saral Money Back Gold

**Q7. Which country (In January 2024) has become the first to introduce the RTS,S malaria vaccine into its routine national immunization services outside of the initial malaria vaccine pilot program conducted in Ghana, Kenya, and Malawi?**

- (a) Nigeria
- (b) Cameroon
- (c) South Africa
- (d) Uganda
- (e) Tanzania

**Q8. The 11th edition of the India-Kyrgyzstan Joint Special Forces Exercise KHANJAR was held at which venue in Himachal Pradesh from 22nd January to 3rd February 2024?**

- (a) Shimla
- (b) Manali
- (c) Dharamshala
- (d) Bakloh
- (e) Kasauli



**Q9. India has recently (In January 2024) been elected to a significant position within the Food and Agriculture Organization's (FAO) Committee on Fisheries Management. What role will India serve as for the first time in 57 years, highlighting its influence on global fisheries governance and management?**

- (a) Chair of the FAO Committee on Fisheries
- (b) President of the FAO Conference
- (c) Director of the FAO Fisheries and Aquaculture Department
- (d) First Vice Chair of the FAO COFI Sub-Committee on Fisheries Management
- (e) Head of the FAO Fisheries Bureau on 'Capture Fisheries'

**Q10. Kachchhi Kharek, an indigenous variety of dates from Kutch, has recently been awarded a geographical indication (GI) tag, becoming the second fruit from Gujarat to receive this distinction. Which organization awarded the GI tag to Kachchhi Kharek earlier this month on 2<sup>nd</sup> January 2024?**

- (a) Food Safety and Standards Authority of India (FSSAI)
- (b) Indian Council of Agricultural Research (ICAR)
- (c) Controller General of Patents, Designs and Trade Marks (CGPDT)
- (d) Ministry of Agriculture & Farmers Welfare
- (e) National Biodiversity Authority of India (NBA)

**Q11. Where is the headquarters of United World Wrestling (UWW), the international governing body for the sport of wrestling?**

- (a) Lausanne, Switzerland
- (b) Paris, France
- (c) London, United Kingdom
- (d) New York, USA
- (e) Tokyo, Japan

**Q12. Under which country's G20 presidency was the Independent Expert Group (IEG) on reform of multilateral development banks set up, leading to the World Bank Group establishing a task force to study its recommendations?**

- (a) United States
- (b) Germany
- (c) India
- (d) China
- (e) France

**Q13. In which Indian state is the Padmanabhaswamy Temple, known for its rich cultural heritage and architectural magnificence, located?**

- (a) Tamil Nadu
- (b) Kerala
- (c) Karnataka
- (d) Andhra Pradesh
- (e) Telangana

**Q14. Which is India's longest national highway, spanning across multiple states and serving as a major arterial route for transportation and commerce?**

- (a) National Highway 44 (NH 44)
- (b) National Highway 35 (NH 7)
- (c) National Highway 40 (NH 48)
- (d) National Highway 19 (NH 19)
- (e) National Highway 27 (NH 27)

**Q15. At the Asian Shooting Championships 2023 held in Changwon, Republic of Korea, how many total medals did India win, and how does this compare to the total number of medals won by China?**

- (a) India: 55 medals (21 gold, 21 silver, 13 bronze), China: 76 medals (33 gold)
- (b) India: 60 medals (25 gold, 20 silver, 15 bronze), China: 70 medals (30 gold)
- (c) India: 45 medals (18 gold, 15 silver, 12 bronze), China: 80 medals (35 gold)
- (d) India: 50 medals (20 gold, 15 silver, 15 bronze), China: 65 medals (25 gold)
- (e) India: 40 medals (15 gold, 10 silver, 15 bronze), China: 85 medals (40 gold)

**Q16. Who has (In October 2023) succeeded Mike Gatting as the Chair of the Marylebone Cricket Club (MCC) World Cricket Committee, a prestigious assembly that includes cricket luminaries from around the world?**

- (a) Sourav Ganguly
- (b) Kumar Sangakkara
- (c) Ricky Ponting
- (d) Sachin Tendulkar
- (e) Virat Kohli

**Q17. What is the annual premium amount for the Pradhan Mantri Suraksha Bima Yojana, an accident insurance scheme offering cover for accidental death and disability?**

- (a) Rs. 11
- (b) Rs. 12
- (c) Rs. 20
- (d) Rs. 21
- (e) Rs. 22

**Q18. Term life insurance is characterized by which of the following features?**

- (a) Coverage that lasts for the insured's entire lifetime, with fixed premiums and a cash value component
- (b) Provision of coverage for a predetermined period of time, paying out a death benefit if the insured dies while the policy is active
- (c) A policy combining life insurance with an investment component, where the value fluctuates based on investment performance
- (d) Insurance exclusively covering accidental death, with benefits varying based on the cause of death
- (e) A healthcare policy that covers life-threatening diseases, providing a lump sum upon diagnosis

**Q19. What was the primary reason behind the collaboration between Axis Bank and Fibe (formerly known as EarlySalary) in October 2023?**

- (a) To launch India's first digital-only savings account
- (b) To introduce a new online banking platform
- (c) To develop a new blockchain technology for secure transactions
- (d) To unveil India's first numberless credit card targeted at Gen Z
- (e) To create a financial literacy program for young adults

**Q20. In October 2023, the Mahindra and Mahindra arm that manufactures three-wheelers and small commercial vehicles, including electric options, received the first tranche of funding from the International Finance Corporation. How much was the amount of this first tranche?**

- (a) ₹100 crore
- (b) ₹200 crore
- (c) ₹300 crore
- (d) ₹400 crore
- (e) ₹500 crore

**Directions (21-25): In the following questions, a sentence is divided into four parts. One of these parts may have grammatical or idiomatic error in it. Choose the part containing error as your answer. If there is no error in the given sentence then choose option (E) as your answer.**

**Q21.** India is all set to join (A)/ World Health Organization's "solidarity trial" (B)/ aimed at rapid global search (C)/ for drugs to treat COVID-19 (D)/ No Error.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error.

**Q22.** The Union Health Ministry announced (A)/ that it was scaling up measures to combat (B)/the virus by bring in (C)/40,000 more ventilators in the next three months (D)/ No Error.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error.

**Q23.** India will setting up an electronic platform (A)/ to help member-countries of the (B)/South Asian Association for Regional (C)/ Cooperation fight the COVID-19 pandemic (D)/ No Error.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error.

**Q24.** The Union government has asked (A)/ all the States and Union Territories to (B)/ensure that caregivers of persons with (C)/disabilities was able to reach them during the lockdown (D)/ No Error.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error.

**Q25.** British Prime Minister Boris Johnson said (A)/ he has tested positive for the coronavirus, (B)/ while the number of infection in (C)/ the U.S. surged to the most in the world (D)/ No Error.

- (a) A
- (b) B
- (c) C
- (d) D
- (e) No error.

**Directions (26-30): In the following questions, a part of the sentence have been highlighted. The highlighted part may or may not have grammatical or idiomatic error. Below each sentence appropriate replacements are provided. Choose the replacement that would make the given sentence contextually and grammatically correct.**

**Q26.** With a large number of people across India going under quarantine due to suspected exposure to SARS-CoV-2 virus, information about there identity is leaking or getting deliberately published.

- (a) about there identity is leaking or got deliberately
- (b) about their identity is leaking or getting deliberately
- (c) about their identity has leaking or getting deliberately
- (d) about there identity was leaking or getting deliberately
- (e) None of these.

**Q27.** Indian banks will have to brace themselves for a prolonged period of lower profits resulting from a hit in revenues and almost zero new business.

- (a) will had to brace themselves for a prolonged
- (b) will have to bracing themselves for a prolonged
- (c) will have been brace themselves for a prolonged
- (d) will have to brace themselves for a prolonged
- (e) None of these.

**Q28.** The Coffee Day Group cleared a third of its debt to banks and other lenders, within hours of receiving Rs 1,700 crore as the first tranche of money from its deal.

- (a) within hours to receive Rs 1,700 crore
- (b) within hour of receiving Rs 1,700 crores
- (c) within hours by receiving Rs 1,700 crore
- (d) within hours from receiving Rs 1,700 crores
- (e) None of these.



**Q29.** Even two days after the lockdown, hundreds of migrant **workers could be seen walking** through Ghaziabad to reach home.

- (a) workers could be seen walking
- (b) workers should be seen walking
- (c) workers could have been seen walking
- (d) workers could be seen walking
- (e) None of these.

**Q30.** Rating agency Crisil **have cut the country's GDP growth forecast** for the next financial year to 3.5% from 5.2% projected earlier, due to the spread of COVID-19.

- (a) have cut the country's GDP growth forecasts
- (b) has cut the country's GDP growth forecast
- (c) have cut the country's GDP growth forecasting
- (d) has cut the country's GDP growth forecast
- (e) None of these.

**Directions (31-38):** Read the following passage carefully and answer the questions given below it. Certain words are given in bold to help you locate them while answering some of the questions.

Every piece of plastic ever **disposed of** (this includes the toothbrush your great-grandfather used) is damaging the earth. It's lying somewhere in the earth, floating in the ocean, or been broken down into microparticles and in the food chain. Although a fraction of the plastic disposed of is recycled, most of it eventually ends up in the ocean or in dump sites outside city limits. The best way to reduce plastic pollution is to reduce and **phase out** its consumption. solutions range from carrying your own reusable steel glass, box, spoon and cloth bag while eating out or shopping for groceries to using alternatives to plastic for household items. India's Plastic Waste Management Rules (published in March 2016) called for a ban on plastic bags below 50 micron thickness and a phasing out, within two years, of the manufacture and sale of non-recyclable, multi-layered plastic (plastic that snacks come in). More than 20 Indian States have announced a ban on plastic bags. Cities such as Bengaluru announced a complete ban (gazette notification), in 2016, on the manufacture, supply, sale and use of thermocol and plastic items irrespective of thickness. However, a Central Pollution Control Board (CPCB) report has said that this ban is barely effective. Citizens need to be aware of these rules, governments need to work with citizens to collect fines and companies need to be held accountable in terms of their environmental and social responsibilities. Additionally, there should be research on ways to implement these rules, waste generation quantities and trends and find innovative alternatives to plastic. We also need strategies to deal with the plastic that has already been disposed of. The same report says that India

generates an estimated 16 lakh tonnes of plastic waste annually. If sold at the global average rate of 50 cents a kg, it can generate a revenue of ₹5,600 crore a year. Why then is most of this waste around us? In order to realise the potential for recycling, waste must first be segregated at source. This segregated waste should be then transported and treated separately. If plastic waste is mixed with organic and sanitary matter, its recyclability drastically reduces and its value lost. As mentioned in the Solid Waste Management Rules 2016, waste has to be **segregated** separately at source. This includes separation of dry (plastic, paper, metal, glass) and wet (kitchen and garden) waste at source.

The primary responsibility for collection of used plastic and multi-layered plastic sachets (branded chips, biscuit and snack packets) lies with their producers, importers and brand owners. Companies should have already submitted plans, by September 2016, for waste collection systems based on extended producer responsibility (EPR) either through their own distribution channels or with the local body concerned. Here, the onus of disposal and recycling of products and materials is with producers, rather than on taxpayers and governments. However, none of this has happened at any perceivable scale. Companies say that plastic waste is too complex or pretend to be completely unaware of these rules.

**Q31. Which of the following will not contribute in dealing with the issue of plastic pollution at individual levels?**

- (a) Carrying your own reusable steel glass, box, spoon and while eating out.
- (b) Using personal cloth bags when shopping for groceries.
- (c) Companies and governments should interact for plastic bans.
- (d) Using alternatives to plastic for household items.
- (e) Both c and d

**Q32. Which of the following measures have been suggested in the passage for effective implementation of rules of banning plastic?**

- (a) Governments need to work with citizens to collect fines
- (b) Companies need to be held accountable in terms of their environmental and social responsibilities.
- (c) Conduct studies to find ways to implement rules along with finding innovative alternatives to plastic.
- (d) All are correct.
- (e) Only b and c

**Q33. Why is it necessary to segregate plastic waste?**

- (a) Reduces collection, transportation and recycling costs.
- (b) The complexity of dealing with plastic waste.
- (c) To maintain its recyclability and the value.
- (d) Because of its ubiquity and distributed market.
- (e) To increase the turnover of plastic companies.

**Q34. Which of the following ways should have been adopted by companies for waste collections?**

- (a) Companies can collectively implement plastic recycling.
- (b) Submitting plans for waste collection systems either through personal distribution channels or through local bodies.
- (c) Plastic recycling operated by informal aggregators.
- (d) By geographically dividing a region into zones.
- (e) Agencies specially appointed by government on national level

**Q35. Which of the following measure has been suggested as the best way to reduce plastic pollution?**

- (a) Rethink, reduce, segregate and recycle every time we encounter a piece of plastic
- (b) Empower the informal recycling sector, giving waste pickers dignity and steady incomes.
- (c) Handle the plastic waste generated in their designated areas.
- (d) Decrease and gradually do away with plastic usage.
- (e) Both b and d

**Q36. Which of the following rules were introduced under India's Plastic Waste Management Rules, 2016?**

- (i) Plastic bags which will be below the thickness of 50 micron will be banned.
  - (ii) Several companies produce the same type of packaging which should now be discontinued.
  - (iii) Discontinue the manufacture and sale of non-recyclable, multi-layered plastic within next 2 years.
- (a) Both (i) and (ii)
  - (b) Both (i) and (iii)
  - (c) All are correct.
  - (d) Both (ii) and (iii)
  - (e) Only (iii)

**Q37. Which of the following words is similar in meaning with 'disposed of', as highlighted in the given passage?**

- (a) addressed
- (b) discarded
- (c) loaded
- (d) accumulated
- (e) assembled

**Q38. Which of the following word can replace the word 'phase out', as highlighted in the given passage?**

- (a) discontinue
- (b) initiate
- (c) imitate
- (d) Aggravate
- (e) lowered

**Directions (39-40): In the question given below, some sentences/phrases are given which have to be arranged in a proper sequence. Select the option which best defines the proper sequence and arranges the sentence in an appropriate way.**

**Q39.** take critical decisions after (A)/ on how men in authority (B)/deep and deliberate introspection (C)/ we have been fed on stories (D)

- (a) ADCB
- (b) CBAD
- (c) DBAC
- (d) BACD
- (e) No arrangement required

**Q40.** economy than it was three decades ago, globally, (A)/ it continues to remain relatively (B)/closed when compared to other major economies (C)/ while India is surely a much more open (D)

- (a) DCBA
- (b) DABC
- (c) BADC
- (d) CBDA
- (e) No arrangement required

**Q41.** A vessel contains 1600 ml mixture of water and milk in which milk is 60% of water. If 400 ml mixture is withdrawn from the vessel and completely replaced with milk, then find ratio of milk to water in the final mixture in the vessel respectively.

- (a) 11:7
- (b) 5:4
- (c) 3:2
- (d) 17:15
- (e) None of the above.

**Q42.** Six years ago, age of P was 75% of age of Q at that time and sum of present age of Q and present age of R is 56 years. If R is two years older than P, then find sum of present age of P and present age of R?

- (a) 48 years
- (b) 50 years
- (c) 42 years
- (d) 56 years
- (e) 54 years

**Q43.** Time taken by Seema alone to complete a work is 25% more than the time taken by Babita alone to complete the same work. Both starts working together and after 16 days, 10% of the work is remaining. Find the difference between time taken by Seema alone and Babita alone to complete the same work.

- (a)  $8\frac{1}{2}$  days
- (b) 8 days
- (c) 10 days
- (d) 12 days
- (e) 16 days

**Q44.** P, Q & R entered into a business by making investment in the ratio of 3 : 5 : 8 respectively and period of investment of P and Q is 200% and 100% more than that of R respectively. If average of profit share of P, Q & R is Rs. 10800, then find sum of profit share of P & R together (in Rs.)

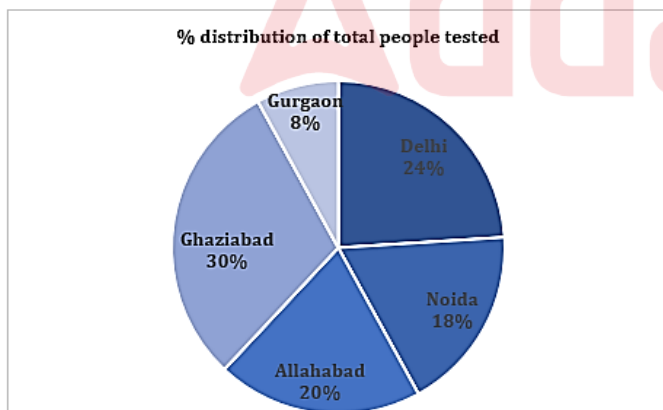
- (a) 20400
- (b) 20000
- (c) 18000
- (d) 26000
- (e) 28000

**Q45.** A shopkeeper sold a table at 40% discount and thus making a loss of 10%. If he gives a discount equal to half of the previous discount then he makes a profit of Rs. 60. Find at what price shopkeeper should sell the table to make a profit of 25%?

- (a) 600 Rs.
- (b) 540 Rs.
- (c) 375 Rs.
- (d) 360 Rs.
- (e) 480 Rs.

**Directions (46-50):** Pie chart shows the percentage distribution of total number of people tested for COVID - 19 in five different cities (New Delhi, Noida, Allahabad, Ghaziabad & Gurgaon) and table shows the percentage of people who tested positive out of total people tested in these five cities and ratio of male to female who tested positive in these 5 cities. Study the pie chart and table given below and answer the following questions.

**Note:** Total number of people tested in these 5 cities together are 25,000



Cities	% Of people who tested positive	Ratio of male to female who tested positive
Delhi	45%	4:5
Noida	60%	2:1
Allahabad	40%	3:1
Ghaziabad	80%	3:7
Gurgaon	30%	2:3

**Q46.** Total number of males who tested positive from Delhi and Ghaziabad together are what percent more or less than number of people who tested negative from Noida?

- (a)  $71\frac{3}{7}\%$
- (b)  $88\frac{8}{9}\%$
- (c) 62.5%
- (d)  $66\frac{2}{3}\%$
- (e)  $33\frac{1}{3}\%$

**Q47.** Average number of people who tested negative from Delhi, Allahabad & Ghaziabad are how much more or less than females who tested positive from Delhi & Noida together?

- (a) 150
- (b) 200
- (c) 180
- (d) 160
- (e) 140

**Q48.** Find the average number of people who tested positive in the test from these five cities.

- (a) 2,800
- (b) 2,700
- (c) 2,400
- (d) 2,100
- (e) 2,500

**Q49.** Total number of females who tested positive from Allahabad, Ghaziabad & Gurgaon together are what percent of total tests conducted in Allahabad?

- (a) 106.8%
- (b) 107.6%
- (c) 105.6%
- (d) 104.8%
- (e) 101.2%

**Q50.** Find total number of males who tested positive from Noida, Allahabad & Gurgaon together.

- (a) 3,720
- (b) 3,540
- (c) 3,860
- (d) 3,680
- (e) 3,920

**Directions (51-55):** In the given questions, two quantities are given, one as 'Quantity I' and another as 'Quantity II'. You have to determine relationship between two quantities and choose the appropriate option:

**Q51.** Two pipe P and Q can fill a tank alone in 'X' hours and (X + 12) hours respectively, while both pipes together fill the same tank in  $12\frac{4}{13}$  hours.

**Quantity I.** Value of (X + 4).

**Quantity II.** 22

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I  $\geq$  Quantity II
- (d) Quantity I  $\leq$  Quantity II
- (e) Quantity I = Quantity II or no relation

**Q52.** Sum of diameter and circumference of a circle is 232 cm.

**Quantity I.** If area of a square is 36 cm<sup>2</sup> more than area of the given circle, then find perimeter of square.

**Quantity II.** 200 cm.

- (a) Quantity I > Quantity II
- (b) Quantity I < Quantity II
- (c) Quantity I = Quantity II or no relation
- (d) Quantity I  $\leq$  Quantity II
- (e) Quantity I  $\geq$  Quantity II

**Q53.**

**Quantity I.** Find value of 'x', if  $2x^2 + 7x + 3 = 0$

**Quantity II.** Find value of 'y', if  $2y^2 + 12y + 18 = 0$

- (a) Quantity I > Quantity II
- (b) Quantity I  $\geq$  Quantity II
- (c) Quantity I = Quantity II or no relation
- (d) Quantity I  $\leq$  Quantity II
- (e) Quantity I < Quantity II

**Q54.** Present age of Q is 37.5% less than that of P and the average of present age of Q and R is 70 years. Ten years ago, sum of ages of P and Q was 110 years.

**Quantity I.** Find difference between present age of P and that of R (in years).

**Quantity II.** 12 years.

- (a) Quantity I > Quantity II
- (b) Quantity I  $\geq$  Quantity II
- (c) Quantity I = Quantity II or no relation
- (d) Quantity I < Quantity II
- (e) Quantity I  $\leq$  Quantity II

A

## SEBI GRADE- A

*Assistant Manager (General)  
Phase-I Paper-1  
20+ Total Tests*

Test Series

**Q55.** A certain amount invested at the rate of 'R'% p.a. on simple interest and it becomes 175% of itself after six years.

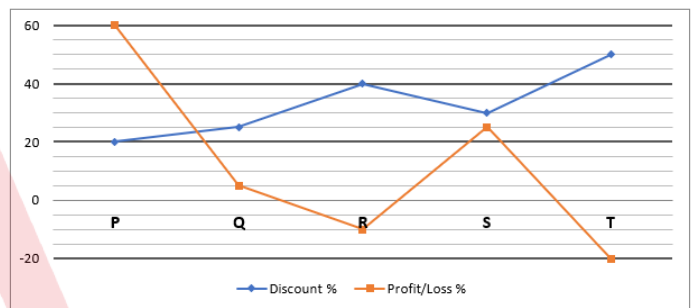
**Quantity I,** If a man invested Rs. 4000 at the rate of (R + 7.5) % p.a. on compound interest compounding annually, then find total amount (in Rs.) received by man after two years.

**Quantity II.** 5760 Rs.

- (a) Quantity I > Quantity II
- (b) Quantity I  $\geq$  Quantity II
- (c) Quantity I = Quantity II or no relation
- (d) Quantity I < Quantity II
- (e) Quantity I  $\leq$  Quantity II

**Directions (56-60):** Study the line chart given below and answer the following questions.

Line chart given below shows the discount % allowed on five different articles (P, Q, R, S & T) and profit %/loss % on these five different articles.



**Q56.** If marked price of article P is Rs.10,000 and cost price of article R is 60% more than cost price of article P, then find selling price of article R?

- (a) Rs.7,200
- (b) Rs.7,500
- (c) Rs.8,100
- (d) Rs.8,000
- (e) Rs.7,800

**Q57.** If ratio of selling price of article Q to marked price of article T is 7:24 respectively, then find marked price of article Q is what percent of selling price of article T?

- (a) 87.5%
- (b)  $85\frac{5}{7}\%$
- (c)  $66\frac{2}{3}\%$
- (d)  $77\frac{7}{9}\%$
- (e) None of the above.

**Q58.** If ratio of discount allowed on article T to loss incurred on article R is 4:1 respectively and marked price of article R is Rs.1500, then find average of cost prices of article R & T?

- (a) Rs.400
- (b) Rs.850
- (c) Rs.750
- (d) Rs.600
- (e) Rs.550



**Q59. If difference between cost price and marked price of article S is Rs.6,600, then find amount of discount allowed on article S?**

- (a) Rs.4,500
- (b) Rs.5,000
- (c) Rs.3,500
- (d) Rs.6,000
- (e) Rs.6,500

**Q60. If average of selling price of article P & Q is Rs. 4362.5 and marked price of article Q is 26% more than marked price of article P, then find difference between cost price of article P & Q?**

- (a) Rs.2,500
- (b) Rs.1,500
- (c) Rs.1,000
- (d) Rs.2,000
- (e) Rs.500

**Directions (61-64): Study the following information to answer the given questions.**

In a certain code language,

'choice ability book current' is written as 'mtb guv hbu std'

'ability latest online always' is written as 'tkm hbu dav pur'

'online choice motivate dream' is written as 'nhm mto tkm guv'

'always break book online' is written as 'dav std rxt tkm'

**Q61. In the given code language, what does the code of 'mto' stand for?**

- (a) Either 'choice' or 'book'
- (b) current
- (c) online
- (d) Either 'dream' or 'motivate'
- (e) break

**Q62. What is the code for 'always' in the given code language?**

- (a) tkm
- (b) rxt
- (c) std
- (d) dav
- (e) Other than those given as options

**Q63. What is the code for 'ability' in the given code language?**

- (a) nhm
- (b) hbu
- (c) guv
- (d) pur
- (e) rxt

**Q64. If 'online book home' is written as 'ajm tkm std' in the given code language, then what is the code for 'home latest current'?**

- (a) ajm guv nhm
- (b) pur ajm mtb
- (c) nhm mtb pur
- (d) mtb dav ajm
- (e) ajm hbu pur

**Q65. How many pairs of letters are there in the word 'WONDERFUL', each of which have as many letters between them (both forward and backward direction) in the word as they have between them according to English alphabetical order?**

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) None of these

**Directions (66-70): Study the following information carefully and answer the questions given below:**

Eight persons visited a hospital for vaccination on two different dates i.e. 13<sup>th</sup> and 21<sup>st</sup> but in four different months i.e. March, June, August and November of the same year. Not more than two people will visit the hospital in the same month.

O visited the hospital in the month which has even numbers of days but not on 21<sup>st</sup> of any of the month. Two people visited the hospital in between O and T. Neither R nor Q visited the hospital in the month which have an odd number of days. R visited the hospital after N but not before T. P and S visited the hospital on a same date but not in the same month. Q visited the hospital on 21<sup>st</sup> of any month but before the month of August but not immediate before O. N does not visit the hospital on 13<sup>th</sup> of any month and also does not visit immediate after O. S neither visit the hospital before N nor on 21<sup>st</sup> of any the month. R does not visit the hospital just after S. M and P visited the hospital on different dates.

**Q66. On which of the following date R visit for vaccination?**

- (a) 13<sup>th</sup> June
- (b) 21<sup>st</sup> November
- (c) 13<sup>th</sup> November
- (d) 21<sup>st</sup> June
- (e) None of these

**Q67. How many persons go between P and T?**

- (a) Four
- (b) Three
- (c) Two
- (d) One
- (e) None

**Q68. The number of persons go before S is same as the number of persons visited hospital between \_\_\_ and \_\_\_?**

- (a) Q, T
- (b) O, M
- (c) N, M
- (d) S, R
- (e) None of these



**Q69. Which of the following statement is true about S?**

- (a) S visited the hospital in the month which has even number of days
- (b) Only two persons visit between S and R
- (c) S visit on the same date as O
- (d) More than three persons visit after S
- (e) None is true

**Q70. Four of the following five are alike in a certain way so form a group, which of the following does not belong to that group?**

- (a) N
- (b) Q
- (c) T
- (d) R
- (e) M

**Directions (71-72):** In this question, relationship between different elements is shown in the statements. The statements are followed by conclusions. Study the conclusions based on the given statement and select the appropriate answer.

**Q71.**

**Statements:**

$$M \leq J < B = L < T > P \leq S$$

**Conclusions:**

I.  $J < T$

II.  $L > S$

- (a) Either conclusion I or II is true.
- (b) Neither conclusion I nor II is true.
- (c) Only conclusion II is true.
- (d) Only conclusion I is true.
- (e) Both conclusion I and II are true.

**Q72.**

**Statements:**

$$D \leq R \leq I < L; I < F < S$$

**Conclusions:**

I.  $D < F$

II.  $S > R$

- (a) Both conclusion I and II are true.
- (b) Only conclusion II is true.
- (c) Either conclusion I or II is true.
- (d) Neither conclusion I nor II is true.
- (e) Only conclusion I is true.

**Directions (73-74):** Study the following information and answer the given questions:

Point A is 15m west of point B. Point G is 20m north of point F which is 7m east of point E. Point C is 18m south of point B. point D is 10m west of point C and 8m south of point E.

**Q73. What is the direction of point A with respect to point C?**

- (a) South-West
- (b) North-East
- (c) North-west
- (d) South-East
- (e) None of these

**Q74. What is the shortest distance between point G and point B?**

- (a) 15m
- (b)  $3\sqrt{10}$ m
- (c) 21m
- (d)  $\sqrt{109}$ m
- (e) None of these

**Q75. Dheeraj is 15<sup>th</sup> from the left end of a row of 30 students and Shivani is 20<sup>th</sup> from the right end in the same row. How many students are there between them in the row?**

- (a) 3
- (b) 2
- (c) 1
- (d) 5
- (e) 4

**Directions (76-80):** Study the information carefully and answer the question given below.

**Eight persons live in an eight-floor building.** The ground floor is numbered as 1 and topmost floor is numbered as 8. D lives on an even number floor below 5<sup>th</sup> floor. There is only one person lives between D and C. G lives on one of the even number floors but not on the top floor. There are two persons live between C and A who lives below E. H lives on a floor immediate above the B's floor. The number of persons live between F and B is same as the number of persons live between F and E.

**Q76. Who among the following lives just below C?**

- (a) G
- (b) E
- (c) A
- (d) D
- (e) None of these

**Q77. How many persons live between H and F?**

- (a) Four
- (b) Three
- (c) Two
- (d) One
- (e) None

**Q78. Who among the following lives on an even numbered floor below G?**

- (a) A
- (b) D
- (c) E
- (d) C
- (e) Both b and d

**Q79.** The number of persons live above \_\_\_ is same as the number of persons live below \_\_\_ respectively?

- (a) C, G
- (b) F, D
- (c) B, C
- (d) G, E
- (e) None of these

**Q80.** Four of the following five are alike in a certain way so form a group, which of the following does not belong to that group?

- (a) H
- (b) F
- (c) G
- (d) C
- (e) D

## Solutions

**S1. Ans.(a)**

**Sol.** Ahmed Awad bin Mubarak was appointed as Yemen's new prime minister by the Presidential Leadership Council in February 2024, replacing **Maeen Abdulmalik Saeed**.

**Details:**

- The outgoing Prime Minister, Maeen Abdulmalik Saeed, will transition to the role of an advisor to the Chairman of the Presidential Leadership Council, marking a significant change in Yemen's political landscape amid ongoing efforts to navigate the country through its challenges.

**S2. Ans.(b)**

**Sol.** **Indian Institute of Technology Madras (IIT Madras)** is the institution partnering with Munitions India Limited to develop India's first indigenously-designed 155 Smart Ammunition.

**Details:**

- This initiative aims to significantly enhance the accuracy and lethality of defence equipment, marking a notable advancement towards self-reliance in critical defence technology sectors.

**S3. Ans.(d)**

**Sol.** The **Ministry of Education** is responsible for implementing the PM-POSHAN scheme, which is part of the broader POSHAN Abhiyaan initiative launched on 8th March 2018.

**Details:**

- This scheme focuses on enhancing the nutritional status of adolescent girls, pregnant women, and lactating mothers through a coordinated approach, including the provision of mid-day meals across all States and Union Territories in India.

**S4. Ans.(e)**

**Sol.** **Xavier Labour Relations Institute (XLRI) Jamshedpur** is acknowledged as one of the premier MBA colleges in India within the private sector, according to the IIRF Top B-Schools ranking (Pvt.) 2024.

**Details:**

- XLRI is celebrated for its outstanding management education and leadership in the field, establishing itself as a leader among private institutions for MBA studies.

**S5. Ans.(b)**

**Sol.** The Ministry of External Affairs provided **Rs 9,013.72 crore** to the Exim Bank of India in the fiscal year 2023-24 after the invocation of the Government of India's guarantee on loans deemed "doubtful debt."

**Details:**

- This financial intervention underscores the government's commitment to stabilizing and supporting its financial institutions amid challenges in international lending.

**S6. Ans.(a)**

**Sol.** The two new products launched by SBI Life Insurance are '**SBI Life - Saral Swadhan Supreme**' and '**SBI Life - Smart Swadhan Supreme**'.

**Details:**

- These products are designed to provide customers with life cover as well as the benefit of receiving a return of premiums at the policy's maturity.
- This strategic move aligns with the increasing consumer awareness of the importance of integrating insurance coverage with overall financial planning to achieve financial security and well-being.

**S7. Ans.(b)**

**Sol.** **Cameroon** has taken a significant step by launching the RTS,S malaria vaccine into its routine national immunization services, marking its position as the first country to do so outside the initial pilot program that included Ghana, Kenya, and Malawi.

**Details:**

- This move is part of broader efforts to accelerate vaccination against malaria in high-risk areas across Africa, aiming to reduce the impact of one of the continent's most prevalent and deadly diseases.

**S8. Ans.(d)**

**Sol.** The 11th edition of the India-Kyrgyzstan Joint Special Forces Exercise KHANJAR took place at the Special Forces Training School in **Bakloh, Himachal Pradesh**, from 22nd January to 3rd February 2024.

**Details:**

- This exercise is a significant event aimed at enhancing military cooperation and interoperability between the special forces of India and Kyrgyzstan, focusing on counter-terrorism operations in mountainous terrain.

**S9. Ans.(d)**

**Sol.** India has been elected as the **First Vice Chair of the Food and Agriculture Organization (FAO) Committee on Fisheries (COFI) Sub-Committee on Fisheries Management.**

**Details:**

- This election marks India's significant role in this crucial Sub-Committee as the representative of the Global South, providing balance and perspective to global narratives on fisheries governance and management.
- Additionally, India will serve as a member of the FAO Fisheries Bureau on 'Capture Fisheries' for the first time in 57 years, underscoring its status as one of the top fishing nations and its contribution to over 28 million inland and marine fishers' livelihoods.

**S10. Ans.(c)**

**Sol.** Kachchhi Kharek, the indigenous variety of dates of Kutch, has become the second fruit of Gujarat to get a geographical indication (GI) tag from **the Controller General of Patents, Designs and Trade Marks (CGPDT) of India.**

**S11. Ans.(a)**

**Sol.** **The headquarters of United World Wrestling (UWW), the international governing body responsible for overseeing the sport of wrestling worldwide, is located in Corsier-sur-Vevey, outside of Lausanne, Switzerland.**

**S12. Ans.(c)**

**Sol.** The Independent Expert Group (IEG) on reform of multilateral development banks was set up under **India's G20 presidency.**

This initiative led the World Bank Group to establish a task force dedicated to studying the IEG's recommendations, highlighting India's proactive role in influencing global financial reforms and governance.

**S13. Ans.(b)**

**Sol.** The Padmanabhaswamy Temple, famed for its architectural grandeur and deep cultural significance, is located in the **state of Kerala.**

This temple is a centerpiece of spiritual and historical importance, attracting devotees and tourists from around the world to admire its beauty and partake in its rituals.



**S14. Ans.(a)**

**Sol.** India's longest national highway is **National Highway 44 (NH 44)**, which stretches over several states and plays a crucial role in facilitating transportation and commerce across the country.

This highway is pivotal in connecting major cities, fostering economic growth, and ensuring the mobility of goods and people.

**S15. Ans.(a)**

**Sol.** At the Asian Shooting Championships 2023 in Changwon, Republic of Korea, **India won a total of 55 medals**, including 21 gold, 21 silver, and 13 bronze medals. In comparison, **China won 76 medals, of which 33 were gold.**

**S16. Ans.(b)**

**Sol.** **Kumar Sangakkara** has succeeded Mike Gatting as the Chair of the Marylebone Cricket Club (MCC) World Cricket Committee.

**Details:**

- Previously a member of the committee, Sangakkara will now lead this high-profile assembly, which boasts cricket luminaries from across the globe, marking a significant milestone in his post-playing career contributions to the sport.

**S17. Ans.(c)**

**Sol.** The annual premium amount for the Pradhan Mantri Suraksha Bima Yojana, which provides accidental death and disability cover, is **Rs. 20 per annum per member.**

**Details:**

- This premium is deducted from the account holder's bank or Post office account through the 'auto debit' facility on or before 1st June of each annual coverage period under the scheme.

**S18. Ans.(b)**

**Sol.** Term life insurance is defined by its provision of **coverage for a predetermined period of time, offering a death benefit if the insured dies while the policy is active and in force.**

**Details:**

- Unlike permanent life insurance, it does not include a cash value component or cover the insured for their entire lifetime, distinguishing it as a straightforward form of life protection based solely on a specified term.

**S19. Ans.(d)**

**Sol.** The collaboration between Axis Bank and Fibe (formerly known as EarlySalary) in October 2023 was primarily aimed at **launching India's first-ever numberless credit card.**

**Details:**

- This innovative financial product is specifically designed for the tech-savvy Gen Z demographic, offering a modern and secure way to manage credit without the traditional card number on the physical card, reflecting the evolving needs and preferences of younger consumers.

**S20. Ans.(c)**

**Sol.** The Mahindra and Mahindra arm, known for producing three-wheelers and small commercial vehicles in various fuel options including electric, received the first tranche of ₹300 crore from the International Finance Corporation in October 2023.

This funding is a significant boost for the company, supporting its initiatives in the automotive sector, especially in the development and production of electric vehicles.

**S21. Ans.(e)**

**Sol.** There is no error in the given sentence. So, the correct answer choice is option (e).

**S22. Ans.(c)**

**Sol.** Error lies in part (C). In this part, instead of 'bring' it should be 'bringing' because the given sentence is in past continuous tense as can be seen from the usage of 'was scaling' in part (B). So, the correct answer choice is option (c).

**S23. Ans.(a)**

**Sol.** Error lies in part (A). In this, usage of 'setting' is incorrect because modal verbs are generally followed by V1. So, either it should be 'be setting' or 'set'. So, the correct answer choice is option (a).

**S24. Ans.(d)**

**Sol.** Error lies in part (D). In this, instead of 'was' it should be 'were' because the given sentence is in present tense, as can be seen from the usage of 'has' in the first part of the sentence. So, the correct answer choice is option (d).

**S25. Ans.(c)**

**Sol.** In part (C), 'infection' should be replaced with 'infections' because 'the number' is followed by plural noun and singular verb whereas 'a number' is followed by 'plural verb'. So, the correct answer choice is option (c).

**S26. Ans.(b)**

**Sol.** Usage of 'there' which means in, at, or to that place or position, is incorrect instead it should be 'their' which means belonging to or associated with the people or things previously mentioned or easily identified. So, the correct replacement choice should be option (b).

**S27. Ans.(d)**

**Sol.** 'themselves' is incorrect because the correct form is 'themselves' not 'themselfs'. So, the correct answer choice is option (d).

**S28. Ans.(e)**

**Sol.** There is no error in the highlighted phrase. So, the correct answer choice should be option (e).

**S29. Ans.(a)**

**Sol.** Usage of 'being' in the highlighted phrase is incorrect, instead it should be 'be' because after modal verbs, base form of verb should be used. So, the correct answer choice is option (a).

**S30. Ans.(d)**

**Sol.** In the highlighted phrase, usage of 'has' is incorrect instead it should be 'have' because here subject (Crisil) is singular. So, the correct answer choice is option (d).

**S31. Ans.(c)**

**Sol.** Refer to the first paragraph- "*solutions range from carrying your own reusable steel glass, box, spoon and cloth bag while eating out or shopping for groceries to using alternatives to plastic for household items.*" Referring to the quoted text, we can infer that we cannot find any reference to the statement given in option (c). Hence, option (c) is the most suitable answer choice.

**S32. Ans.(d)**

**Sol.** Refer to the second paragraph- "*Citizens need to be aware of these rules, governments need to work with citizens to collect fines and companies need to be held accountable in terms of their environmental and social responsibilities. Additionally, there should be research on ways to implement these rules, waste generation quantities and trends and find innovative alternatives to plastic.*" Referring to the quoted text, we can infer that all the given statements are correct in context of the given question. Hence, option (d) is the most suitable answer choice.

**S33. Ans.(c)**

**Sol.** Refer to the third paragraph- "*If plastic waste is mixed with organic and sanitary matter, its recyclability drastically reduces and its value lost.*" Referring to the quoted text, we can infer that the statement given in option (c) is correct in context of the given passage. Hence, option (c) is the most suitable answer choice.

**S34. Ans.(b)**

**Sol.** Refer to the last paragraph- "*....for waste collection systems based on extended producer responsibility (EPR) either through their own distribution channels or with the local body concerned.*" Referring to the quoted text, we can infer that the statement given in option (b) is correct in context of the given passage. Hence, option (b) is the most suitable answer choice.

**S35. Ans.(d)**

**Sol.** Refer to the first paragraph- "*The best way to reduce plastic pollution is to reduce and phase out its consumption.*" Referring to the quoted text, we can infer that the statement given in option (d) is correct in context of the given passage. Hence, option (d) is the most suitable answer choice.



**S36. Ans.(b)**

**Sol.** Refer to the second paragraph- "*India's Plastic Waste Management Rules (published in March 2016) called for a ban on plastic bags below 50 micron thickness and a phasing out, within two years, of the manufacture and sale of non-recyclable, multi-layered plastic*". Referring to the quoted text, we can infer that the statements (i) and (iii) are correct in context of the given question. Hence, option (b) is the most suitable answer choice.

**S37. Ans.(b)**

**Sol.** Disposed of is a phrasal verb which means to get rid of someone or something.  
Discarded means get rid of (someone or something) as no longer useful or desirable.

**S38. Ans.(a)**

**Sol.** Phase out means to gradually stop using something.  
Discontinue means cease from doing or providing (something), especially something that has been provided on a regular basis.

**S39. Ans.(c)**

**Sol.** The correct sequence is **DBAC**. The sentence after rearrangement is,  
*We have been fed on stories on how men in authority take critical decisions after deep and deliberate introspection.*  
Hence, **option (c)** is the right answer choice.

**S40. Ans.(b)**

**Sol.** The correct sequence is **DABC**. The sentence after rearrangement is,  
*While India is surely a much more open economy than it was three decades ago, globally, it continues to remain relatively closed when compared to other major economies.*  
Hence, **option (b)** is the right answer choice.

**S41. Ans.(d)**

**Sol.** Ratio of water and milk in vessel initially = 100% : 60%  
= 5 : 3

ATQ,  
Quantity of milk in the final mixture in the vessel =  $(1600 \times \frac{3}{8}) - (400 \times \frac{3}{8}) + 400 = 850$  ml  
Quantity of water in the final mixture in the vessel =  $(1600 \times \frac{5}{8}) - (400 \times \frac{5}{8}) = 750$  ml  
Required ratio =  $\frac{850}{750} = 17:15$

**S42. Ans.(b)**

**Sol.**  
Let age of Q six years ago was =  $4x$  years  
So, age of P six years ago was =  $4x \times \frac{75}{100} = 3x$  years  
Present age of R =  $56 - (4x + 6) = (50 - 4x)$  years  
ATQ -  
 $(50 - 4x) - (3x + 6) = 2$   
 $7x = 42$   
 $x = 6$  years  
Required sum =  $(3 \times 6 + 6) + (50 - 4 \times 6)$   
=  $24 + 26 = 50$  years

**S43. Ans.(b)**

**Sol.** Let time taken by Babita alone to complete the whole work be  $4x$  days  
So, time taken by Seema alone complete the whole work  
=  $4x \times \frac{125}{100} = 5x$  days  
ATQ  
 $\frac{16}{4x} + \frac{16}{5x} = \frac{(100 - 10)}{9 \times 100}$   
 $\frac{20x}{80 + 64} = \frac{10}{9}$   
 $20x = 160$   
 $x = 8$  days  
Required difference =  $5x - 4x = x = 8$  days

**S44. Ans.(a)**

**Sol.**  
Let the amount invested by P, Q & R be Rs.  $3x$ , Rs  $5x$  and Rs.  $8x$  respectively  
Let period of investment of R =  $t$   
So, period of investment of P & Q be  $3t$  and  $2t$  respectively  
Profit sharing ratio of P, Q & R =  
P                      Q                      R  
 $3x \times 3t$  :  $5x \times 2t$  :  $8x \times t$   
=  $9 : 10 : 8$   
Let profit share of P, Q and R be Rs  $9p$ , Rs  $10p$  and Rs  $8p$  respectively.  
ATQ  
 $\frac{1}{3}(9p + 10p + 8p) = 10800$  Rs.  
 $p = 1200$  Rs.  
Required sum = Rs  $(9p + 8p) = 17p = 17 \times 1200 = 20400$  Rs.

**S45. Ans.(c)**

**Sol.** Let mark price of table = Rs.  $100x$   
After discount of 40%, selling price of table =  $\frac{100x \times 60}{100} = \text{Rs. } 60x$   
Given, loss on selling table at 40% discount = 10%  
Cost price of table =  $\frac{60x}{90} \times 100 = \text{Rs. } \frac{200}{3}x$  ... (i)  
When table is sold at half discount, i.e. 20% discount, then:  
Selling price of table =  $\frac{100x \times 80}{100} = \text{Rs. } 80x$   
Cost price of table =  $80x - 60$  ... (ii)  
Comparing (i) & (ii):  
 $\frac{200x}{3} = 80x - 60$   
 $x = 4.5$  Rs.  
Cost price of table =  $\frac{200}{3} \times 4.5 = \text{Rs. } 300$   
So, required selling price =  $300 \times \frac{125}{100} = 375$  Rs.

**S46. Ans.(d)**

**Sol.**  
Total number of males who tested positive from Delhi and Ghaziabad together  
=  $(25,000 \times \frac{24}{100} \times \frac{45}{100} \times \frac{4}{9}) + (25,000 \times \frac{30}{100} \times \frac{80}{100} \times \frac{3}{10})$   
=  $1,200 + 1,800$   
=  $3,000$   
Total number of people who tested negative from Noida =  $25,000 \times \frac{18}{100} \times \frac{100-60}{100} = 1,800$   
Required percentage =  $\frac{3,000-1,800}{1,800} \times 100 = 66\frac{2}{3}\%$

**S47. Ans.(b)**

**Sol.** Average number of people who tested negative from Delhi, Allahabad & Ghaziabad =  
 $\frac{1}{3} \times ((25,000 \times \frac{24}{100} \times \frac{100-45}{100}) + (25,000 \times \frac{20}{100} \times \frac{100-40}{100}) + (25,000 \times \frac{30}{100} \times \frac{100-80}{100}))$   
=  $\frac{1}{3} \times (3300 + 3000 + 1500)$   
=  $2600$   
Females who tested positive from Delhi and Noida together  
=  $(25,000 \times \frac{24}{100} \times \frac{45}{100} \times \frac{5}{9}) + (25,000 \times \frac{18}{100} \times \frac{60}{100} \times \frac{1}{3})$   
=  $1,500 + 900$   
=  $2,400$   
Required difference =  $2,600 - 2,400 = 200$

**S48. Ans.(a)**

**Sol.**

$$\begin{aligned} \text{Required average} &= \frac{1}{5} \times \left( (25,000 \times \frac{24}{100} \times \frac{45}{100}) + (25,000 \times \frac{18}{100} \times \frac{60}{100}) + (25,000 \times \frac{20}{100} \times \frac{40}{100}) + (25,000 \times \frac{30}{100} \times \frac{80}{100}) + (25,000 \times \frac{8}{100} \times \frac{30}{100}) \right) \\ &= \frac{1}{5} \times (2,700 + 2,700 + 2,000 + 6,000 + 600) \\ &= 2,800 \end{aligned}$$

**S49. Ans.(e)**

**Sol.**

$$\begin{aligned} \text{Total number of females who tested positive from Allahabad, Ghaziabad &\& Gurgaon together} \\ &= (25,000 \times \frac{20}{100} \times \frac{40}{100} \times \frac{1}{4}) + (25,000 \times \frac{30}{100} \times \frac{80}{100} \times \frac{7}{10}) + (25,000 \times \frac{8}{100} \times \frac{30}{100} \times \frac{3}{5}) \\ &= 500 + 4,200 + 360 \\ &= 5,060 \end{aligned}$$

$$\text{Total tests conducted in Allahabad} = 25,000 \times \frac{20}{100} = 5,000$$

$$\text{Required \%} = \frac{5,060}{5,000} \times 100 = 101.2\%$$

**S50. Ans.(b)**

**Sol.**

Required number of people

$$\begin{aligned} &= (25,000 \times \frac{20}{100} \times \frac{40}{100} \times \frac{3}{4}) + (25,000 \times \frac{18}{100} \times \frac{60}{100} \times \frac{2}{3}) + (25,000 \times \frac{8}{100} \times \frac{30}{100} \times \frac{2}{5}) \\ &= 1,500 + 1,800 + 240 \\ &= 3,540 \end{aligned}$$

**S51. Ans.(a)**

**Sol.**

ATQ -

$$\begin{aligned} \frac{1}{X} + \frac{1}{X+12} &= \frac{13}{160} \\ \frac{X+(X+12)}{X(X+12)} &= \frac{160}{13} \end{aligned}$$

$$X = 20 \text{ hours}$$

**Quantity I.** Value of  $(X + 4) = (20 + 4) = 24$

**Quantity II.** 22

So, **Quantity I > Quantity II**

**S52. Ans.(c)**

**Sol.**

Let radius of circle be  $r$  cm.

ATQ -

$$2r + 2\pi r = 232$$

$$r(1 + \frac{22}{7}) = 116$$

$$r = 28 \text{ cm}$$

$$\begin{aligned} \text{Quantity I. Area of square} &= (\text{area of circle} + 36) \text{ cm}^2 \\ &= \frac{22}{7} \times 28 \times 28 + 36 \\ &= 2500 \text{ cm}^2 \end{aligned}$$

Side of square = 50 cm

So, perimeter of square =  $4 \times 50 = 200$  cm

**Quantity II.** 200 cm.

So, **Quantity I = Quantity II**

**S53. Ans.(b)**

**Sol.**

$$\text{Quantity I. } 2x^2 + 7x + 3 = 0$$

$$x(2x + 1) + 3(2x + 1) = 0$$

$$(x + 3)(2x + 1) = 0$$

$$x = -3, -\frac{1}{2}$$

$$\text{Quantity II. } 2y^2 + 12y + 18 = 0$$

$$y^2 + 6y + 9 = 0$$

$$(y + 3)(y + 3) = 0$$

$$y = -3$$

So, **Quantity I  $\geq$  Quantity II**

**S54. Ans.(d)**

**Sol.**

Let present age of P be  $8x$  years.

$$\text{So, present age of Q} = 8x \times \frac{100-37.5}{100} = 5x \text{ years}$$

Now, present age of R =  $70 \times 2 - 5x$

$$= (140 - 5x) \text{ years}$$

ATQ,

$$(8x - 10) + (5x - 10) = 110$$

$$x = 10 \text{ years}$$

**Quantity I.** Required difference =  $(140 - 5x) - 8x = 10$  years

**Quantity II.** 12 years.

So, **Quantity I < Quantity II**

**S55. Ans.(c)**

**Sol.**

Let the money invested be  $x$

It becomes  $175\% = \frac{7}{4}th$  of itself in 6 years.

$$\text{So, interest} = \frac{7}{4}x - x = \frac{3x}{4}$$

ATQ,

$$\frac{3x}{4} = \frac{x \times R \times 6}{100}$$

$$R = \frac{25}{2}\% = 12.5\%$$

**Quantity I.**  $(R + 7.5)\% = (12.5 + 7.5)\% = 20\%$

$$\text{So, total amount received by man after two years} = 4000 \times \frac{120}{100} \times \frac{120}{100} = 5760 \text{ Rs.}$$

**Quantity II.** 5760 Rs.

So, **Quantity I = Quantity II**

**S56. Ans.(a)**

**Sol.**

Let cost price of article P be Rs.  $100x$

$$\text{So, cost price of article R} = 100x \times \frac{160}{100} = \text{Rs. } 160x$$

$$\text{And, marked price of article P} = 100x \times \frac{160}{100} \times \frac{100}{80} = \text{Rs. } 200x$$

ATQ,

$$200x = 10,000$$

$$x = 50 \text{ Rs.}$$

$$\text{Required amount} = 160 \times 50 \times \frac{90}{100} = \text{Rs. } 7,200$$

**S57. Ans.(d)**

**Sol.**

Let selling price of article Q & marked price of article T be Rs.  $700x$  & Rs.  $2400x$  respectively.

$$\text{So, marked price of article Q} = 700x \times \frac{100}{75} = \text{Rs. } \frac{2800x}{3}$$

$$\text{And, selling price of article T} = 2400x \times \frac{50}{100} = \text{Rs. } 1200x$$

$$\text{Required \%} = \frac{\frac{2800x}{3}}{1200x} \times 100 = 77\frac{2}{3}\%$$

**S58. Ans.(c)**

**Sol.**

Let cost price of article R & article T be Rs.  $100r$  & Rs.  $100t$  respectively.

$$\text{So, selling price of article T} = 100t \times \frac{80}{100} = \text{Rs. } 80t$$

$$\text{And, marked price of article T} = 80t \times \frac{100}{50} = \text{Rs. } 160t$$

$$\text{Now, loss incurred on article R} = 100r \times \frac{10}{100} = \text{Rs. } 10r$$

$$\text{And, discount allowed on article T} = 160t - 80t = \text{Rs. } 80t$$

$$\frac{80r}{10r} = \frac{4}{1}$$

$$r = 2t$$

$$\text{Now, marked price of article R} = 100r \times \frac{90}{100} \times \frac{100}{60}$$

$$1500 = 150r$$

$$r = 10$$

$$\text{Required average} = \frac{100r + 100r}{2}$$

$$= 50r + 50t$$

$$= 500 + 250$$

$$= \text{Rs.750}$$

**S59. Ans.(a)**

**Sol.**

Let cost price of article S be Rs.100s.

$$\text{So, marked price of article S} = 100s \times \frac{125}{100} \times \frac{100}{70}$$

$$= \text{Rs.} \frac{1250}{7} s$$

ATQ,

$$\frac{1250s}{7} - 100s = 6600$$

$$s = 84$$

$$\text{Required amount} = \frac{1250}{7} \times 84 \times \frac{30}{100} = \text{Rs.4,500}$$

**S60. Ans.(d)**

**Sol.** Let marked price of article P be Rs.100p.

$$\text{So, marked price of article Q} = 100p \times \frac{126}{100} = \text{Rs.126p}$$

$$\text{And, selling price of article Q} = 126p \times \frac{75}{100} = \text{Rs. 94.5p}$$

$$\text{And, selling price of article P} = 100p \times \frac{80}{100} = \text{Rs. 80p}$$

ATQ,

$$(94.5p + 80p) = 4362.5 \times 2$$

$$p = 50$$

$$\text{Now, cost price of article P} = 80 \times 50 \times \frac{100}{160} = \text{Rs.2,500}$$

$$\text{And, cost price of article Q} = 94.5 \times 50 \times \frac{100}{105} = \text{Rs.4,500}$$

$$\text{Required difference} = 4500 - 2500 = \text{Rs.2,000}$$

**S61. Ans.(d)**

**Sol.**

Words	Code
Choice	guv
Ability	hbu
Book	std
Online	tkm
Current	mtb
Always	dav
Latest	pur
Break	rxt
Motivate/ dream	mto/nhm

**S62. Ans.(d)**

**Sol.**

Words	Code
Choice	guv
Ability	hbu
Book	std
Online	tkm
Current	mtb
Always	dav
Latest	pur
Break	rxt
Motivate/ dream	mto/nhm

**S63. Ans.(b)**

**Sol.**

Words	Code
Choice	guv
Ability	hbu
Book	std
Online	tkm
Current	mtb
Always	dav
Latest	pur
Break	rxt
Motivate/ dream	mto/nhm

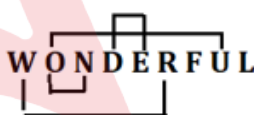
**S64. Ans.(b)**

**Sol.**

Words	Code
Choice	guv
Ability	hbu
Book	std
Online	tkm
Current	mtb
Always	dav
Latest	pur
Break	rxt
Motivate/ dream	mto/nhm

**S65. Ans.(d)**

**Sol.**



**S66. Ans.(c)**

**Sol.** O visited the hospital in the month which has an even number of days but not on 21<sup>st</sup> of any of the month. Two people visited the hospital in between O and T. There are two possible cases, N does not visit the hospital on 13<sup>th</sup> of any month and not immediate after O. R does not visit the hospital in the month which have an odd number of days and visited after N but not before T.

Case-1		
Date	13 <sup>th</sup>	21 <sup>st</sup>
Month		
March		N
June	O	
August		T
November	R/	R/

Case-2		
Date	13 <sup>th</sup>	21 <sup>st</sup>
Month		
March		N/
June		T
August		N/
November	O	R

Q does not visit the hospital in the month which has an odd number of days. Q visited the hospital on 21<sup>st</sup> of any month but before the month of August but not immediate before O. From this case-2 will be eliminated. R does not visit the hospital just after S. P and S visited the hospital on the same date but not in the same month. M and P visited hospital on different dates. S neither visit the hospital before N nor on 21<sup>st</sup> of any the month. So, the final arrangement will be:

Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March	P	N
June	O	Q
August	S	T
November	R	M

**S67. Ans.(a)**

**Sol.** O visited the hospital in the month which has an even number of days but not on 21<sup>st</sup> of any of the month. Two people visited the hospital in between O and T. There are two possible cases, N does not visit the hospital on 13<sup>th</sup> of any month and not immediate after O. R does not visit the hospital in the month which have an odd number of days and visited after N but not before T.

Case-1		
Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March		N
June	O	
August		T
November	R/	R/

Case-2		
Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March		N/
June		T
August		N/
November	O	R

Q does not visit the hospital in the month which has an odd number of days. Q visited the hospital on 21<sup>st</sup> of any month but before the month of August but not immediate before O. From this case-2 will be eliminated. R does not visit the hospital just after S. P and S visited the hospital on the same date but not in the same month. M and P visited hospital on different dates. S neither visit the hospital before N nor on 21<sup>st</sup> of any the month. So, the final arrangement will be:

Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March	P	N
June	O	Q
August	S	T
November	R	M

**S68. Ans.(b)**

**Sol.** O visited the hospital in the month which has an even number of days but not on 21<sup>st</sup> of any of the month. Two people visited the hospital in between O and T. There are two possible cases, N does not visit the hospital on 13<sup>th</sup> of any month and not immediate after O. R does not visit the hospital in the month which have an odd number of days and visited after N but not before T.

Case-1		
Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March		N
June	O	
August		T
November	R/	R/

Case-2		
Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March		N/
June		T
August		N/
November	O	R

Q does not visit the hospital in the month which has an odd number of days. Q visited the hospital on 21<sup>st</sup> of any month but before the month of August but not immediate before O. From this case-2 will be eliminated. R does not visit the hospital just after S. P and S visited the hospital on the same date but not in the same month. M and P visited hospital on different dates. S neither visit the hospital before N nor on 21<sup>st</sup> of any the month. So, the final arrangement will be:

Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March	P	N
June	O	Q
August	S	T
November	R	M

**S69. Ans.(c)**

**Sol.** O visited the hospital in the month which has an even number of days but not on 21<sup>st</sup> of any of the month. Two people visited the hospital in between O and T. There are two possible cases, N does not visit the hospital on 13<sup>th</sup> of any month and not immediate after O. R does not visit the hospital in the month which have an odd number of days and visited after N but not before T.

Case-1		
Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March		N
June	O	
August		T
November	R/	R/

Case-2		
Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March		N/
June		T
August		N/
November	O	R

Q does not visit the hospital in the month which has an odd number of days. Q visited the hospital on 21<sup>st</sup> of any month but before the month of August but not immediate before O. From this case-2 will be eliminated. R does not visit the hospital just after S. P and S visited the hospital on the same date but not in the same month. M and P visited hospital on different dates. S neither visit the hospital before N nor on 21<sup>st</sup> of any the month. So, the final arrangement will be:



Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March	P	N
June	O	Q
August	S	T
November	R	M

S70. Ans.(d)

Sol. O visited the hospital in the month which has an even number of days but not on 21<sup>st</sup> of any of the month. Two people visited the hospital in between O and T. There are two possible cases, N does not visit the hospital on 13<sup>th</sup> of any month and not immediate after O. R does not visit the hospital in the month which have an odd number of days and visited after N but not before T.

Case-1		
Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March		N
June	O	
August		T
November	R/	R/

Case-2		
Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March		N/
June		T
August		N/
November	O	R

Q does not visit the hospital in the month which has an odd number of days. Q visited the hospital on 21<sup>st</sup> of any month but before the month of August but not immediate before O. From this case-2 will be eliminated. R does not visit the hospital just after S. P and S visited the hospital on the same date but not in the same month. M and P visited hospital on different dates. S neither visit the hospital before N nor on 21<sup>st</sup> of any the month. So, the final arrangement will be:

Date \ Month	13 <sup>th</sup>	21 <sup>st</sup>
March	P	N
June	O	Q
August	S	T
November	R	M

S71. Ans.(d)

Sol. I.  $J < T$  (True)

II.  $L > S$  (False)

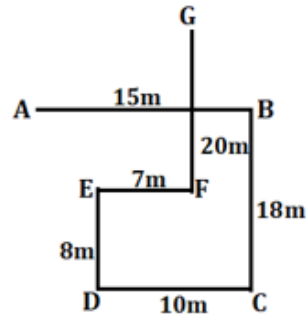
S72. Ans.(a)

Sol. I.  $D < F$  (True)

II.  $S > R$  (True)

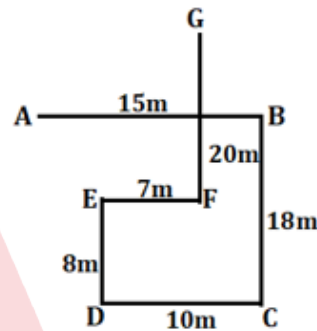
S73. Ans.(c)

Sol.



S74. Ans.(d)

Sol.



S75. Ans.(a)

Sol. Dheeraj position from right end  $= (30+1-15)=16$

Students between them  $= (20-16-1)=3$

S76. Ans.(b)

Sol. D lives on an even number floor below 5<sup>th</sup> floor. There is only one person lives between D and C. G lives on one of the even number floors but not on the top floor. There are two persons live between C and A. H lives on a floor immediate above the B's floor. From these conditions, we get three possible cases.

	Case-1	Case-2	Case-3
Floor	Persons	Persons	Persons
8	H	H	H
7	B	B	B
6	C	G	G
5			A
4	D	C	D
3	A		
2	G	D	C
1		A	

A lives below E From this condition case-3 will be eliminated. The number of persons live between F and B is same as the number of persons live between F and E, from this condition, Case 1 gets eliminated and in Case 2, F lives on floor 5 and B lives on floor 3 and we get the final solution.

Floor	Person
8	H
7	B
6	G
5	F
4	C
3	E
2	D
1	A

**S77. Ans.(c)**

**Sol.** D lives on an even number floor below 5<sup>th</sup> floor. There is only one person lives between D and C. G lives on one of the even number floors but not on the top floor. There are two persons live between C and A. H lives on a floor immediate above the B's floor. From these conditions, we get three possible cases.

	Case-1	Case-2	Case-3
Floor	Persons	Persons	Persons
8	H	H	H
7	B	B	B
6	C	G	G
5			A
4	D	C	D
3	A		
2	G	D	C
1		A	

A lives below E From this condition case-3 will be eliminated. The number of persons live between F and B is same as the number of persons live between F and E, from this condition, Case 1 gets eliminated and in Case 2, F lives on floor 5 and B lives on floor 3 and we get the final solution.

Floor	Person
8	H
7	B
6	G
5	F
4	C
3	E
2	D
1	A

**S78. Ans.(e)**

**Sol.** D lives on an even number floor below 5<sup>th</sup> floor. There is only one person lives between D and C. G lives on one of the even number floors but not on the top floor. There are two persons live between C and A. H lives on a floor immediate above the B's floor. From these conditions, we get three possible cases.

	Case-1	Case-2	Case-3
Floor	Persons	Persons	Persons
8	H	H	H
7	B	B	B
6	C	G	G
5			A
4	D	C	D
3	A		
2	G	D	C
1		A	

A lives below E From this condition case-3 will be eliminated. The number of persons live between F and B is same as the number of persons live between F and E, from this condition, Case 1 gets eliminated and in Case 2, F lives on floor 5 and B lives on floor 3 and we get the final solution.

Floor	Person
8	H
7	B
6	G
5	F
4	C
3	E
2	D
1	A

**S79. Ans.(d)**

**Sol.** D lives on an even number floor below 5<sup>th</sup> floor. There is only one person lives between D and C. G lives on one of the even number floors but not on the top floor. There are two persons live between C and A. H lives on a floor immediate above the B's floor. From these conditions, we get three possible cases.

	Case-1	Case-2	Case-3
Floor	Persons	Persons	Persons
8	H	H	H
7	B	B	B
6	C	G	G
5			A
4	D	C	D
3	A		
2	G	D	C
1		A	

A lives below E From this condition case-3 will be eliminated. The number of persons live between F and B is same as the number of persons live between F and E, from this condition, Case 1 gets eliminated and in Case 2, F lives on floor 5 and B lives on floor 3 and we get the final solution.

Floor	Person
8	H
7	B
6	G
5	F
4	C
3	E
2	D
1	A

S80. Ans.(b)

Sol. D lives on an even number floor below 5<sup>th</sup> floor. There is only one person lives between D and C. G lives on one of the even number floors but not on the top floor. There are two persons live between C and A. H lives on a floor immediate above the B's floor. From these conditions, we get three possible cases.

	Case-1	Case-2	Case-3
Floor	Persons	Persons	Persons
8	H	H	H
7	B	B	B
6	C	G	G
5			A
4	D	C	D
3	A		
2	G	D	C
1		A	

A lives below E From this condition case-3 will be eliminated. The number of persons live between F and B is same as the number of persons live between F and E, from this condition, Case 1 gets eliminated and in Case 2, F lives on floor 5 and B lives on floor 3 and we get the final solution.

Floor	Person
8	H
7	B
6	G
5	F
4	C
3	E
2	D
1	A

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