

## IBPS PO Pre 2022 (16th October) Shift-Wise Previous Year Papers Mock 08

**Directions (1-8):** Read the following passage and answer the questions given below. Some words are highlighted to help you answer some of the questions.

The recent stand-off between Russia and Ukraine has captured headlines in the international news media. This geopolitical situation appears to be complex due to the indirect involvement of its multiple stakeholders, including the United States, Turkey and the North Atlantic Treaty Organization (NATO). Increased tensions between Ukraine and Russia can be viewed as a continuation of the unresolved conflict of 2014. Besides powerful rhetoric from NATO, Ukraine seems to be **desperate** to receive more commitments and concrete actions. The question though is how far the NATO alliance can go in its support, given that Ukraine has not yet obtained membership. This partnership aims to maintain and deepen cooperation between countries that have made significant contributions to the NATO-led missions and operations.

The Ukrainian President's visit to Istanbul to mark the 10th anniversary of Ukraine's strategic partnership with Turkey was also an opportunity for him to be reassured by the Turkish President that Turkey stands by Ukraine amidst the current tensions with Russia. During the bilateral meeting, both leaders discussed the security issues in the Black Sea region. Arguably, the cornerstone of the Russia-Ukraine conflict is insufficient communication. Thus, it is very difficult, if not impossible, to speculate on the overarching rationale behind Russia's tactical decisions towards Ukraine. There are more questions than answers regarding the strategic calculus of the Russian administration. A deficit of explicit messages from Moscow creates room for misinterpretations and exaggerations on the part of Ukraine and its western supporters. A long-term solution should be sought out in order to break the **vicious** cycle of animosity and misunderstanding.

The Russian President has been known for his geopolitical adventures, especially in West Asia. In the case of eastern Ukraine, it is highly unlikely that he would be willing to make further territorial gains this time around. He possesses enough diplomatic skills not to indulge in yet another geopolitical endeavour, that might entail serious repercussions from the international community. All the stakeholders in the ongoing crisis should focus on establishing a constructive dialogue among themselves using clear and unambiguous language. The only way forward is to seek a peaceful resolution to the Russia-Ukraine conflict rather than exacerbating the reality and using quid pro quo tactics. Both countries do need support from the global community, but not in a military form. There is a need for a platform that will facilitate negotiation, mutual consensus and possible compromises, as well as engagement with mediators.

**Q1. What accounts for misperceptions and exaggerations on the part of Ukraine and its supporters in the West?**

- (a) Involvement of other countries in the squabble for their own interests
- (b) Russia's willingness to make more territorial gains in Ukraine.
- (c) Misconceptions are largely due to a lack of clear messages from Moscow.
- (d) Serious prospects that the world community will react negatively.
- (e) A lack of common ground for Russia and Ukraine to reach a mutual agreement.

# Test Prime

**ALL EXAMS,  
ONE SUBSCRIPTION**



**70,000+**  
Mock Tests



**Personalised  
Report Card**



**Unlimited  
Re-Attempt**



**600+**  
Exam Covered



**Previous Year  
Papers**



**500%  
Refund**



**ATTEMPT FREE MOCK NOW**

**Q2. Why does the author describe the ongoing geopolitical situation between Russia and Ukraine as complicated?**

- (a) Multiple stakeholders' indirect intervention has raised tensions between Ukraine and Russia.
- (b) Because the impasse between Russia and Ukraine has deranged the economy throughout the world.
- (c) Due to the active involvement of the NATO, US and Turkey to alleviate the current problem.
- (d) Both (b) and (c)
- (e) Only (a) and (c)

**Q3. Which of the following statements is/are correct about Ukraine's strategic partnership with Turkey?**

- (a) The security issues in the Black Sea region were discussed by Ukraine and Turkey.
- (b) Despite the current tensions with Russia, Ukraine is anticipating succors from Turkey
- (c) The Russian government is enraged by the Ukrainian President's visit to Istanbul.
- (d) The close collaboration between Ukraine and Turkey has overpowered Russian forces.
- (e) Both (a) and (b)

**Q4. What does the author propose as a solution to the ongoing conflict between Russia and Ukraine?**

- (a) All stakeholders involved in the current issue should work together to build a productive discourse.
- (b) Rather than worsening the situation, the way forward is to seek a peaceful end to the Russia-Ukraine conflict.
- (c) A platform that facilitates negotiation and mutual agreement is much required to resolve the current conflict.
- (d) Both (a) and (c)
- (e) All of these

**Q5. Based on the information provided, which one of the following statements is not true about the Russian President?**

- (a) The activities of the Russian President in West Asia illustrate his diplomatic prowess.
- (b) Russian President Vladimir Putin is well-known for his geopolitical edge.
- (c) He has enough diplomatic abilities to avoid any activity that could lead to fatal outcomes.
- (d) Both (b) and (c)
- (e) None of these

**Q6. Why is it difficult to speculate on the ultimate motive underlying Russia's tactical moves in Ukraine?**

- (a) Russia's silence makes commenting on the underlying motivation for Russia's tactical measures in Ukraine tricky.
- (b) Because of the communication breakdown, speculating on the ultimate motivation behind Russia's tactical operations in Ukraine is difficult.

- (c) It's difficult to speculate on the ultimate motivation behind Russia's tactical measures in Ukraine because the focus is on establishing a positive discussion.
- (d) The lack of international support makes it difficult to speculate on Russia's final objective for its operational moves in Ukraine.
- (e) Because of the widespread antagonism, speculating on the eventual reason for Russia's strategic actions in Ukraine is hard.

**Q7.** Choose the most appropriate antonym of the word '**VICIOUS**', as highlighted in the given passage.

- (a) ferocious
- (b) barbaric
- (c) ruthless
- (d) dreadful
- (e) altruistic

**Q8.** Choose the most appropriate synonym of the word '**DESPERATE**', as highlighted in the passage.

- (a) longing
- (b) jovial
- (c) gladsome
- (d) buoyant
- (e) bubbly

**Directions (9-14):** In the following paragraph, a few words have been omitted, each of which has been numbered. Select the most appropriate word from the given options to fill in the given blanks correctly in terms of contextual meaning and grammatical accuracy.

**Q9.** The construction of a new Parliament building and the revamp of the Central Vista Avenue have continued during the lockdown \_\_\_\_\_ **(9)** \_\_\_\_\_ in Delhi due to the second wave of the pandemic and have been challenged in court. The Delhi High Court has reserved its judgment in the matter. The government is \_\_\_\_\_ **(10)** \_\_\_\_\_ for the records at the National Archives and will store them safely during the Central Vista redevelopment project, Union Culture Minister said in a recent statement. Besides, it is the government's responsibility to \_\_\_\_\_ **(11)** \_\_\_\_\_ the archives and it will continue to keep the records safely," he said when asked about the public \_\_\_\_\_ **(12)** \_\_\_\_\_ against the proposal. As a part of the Central Vista redevelopment project, the National Archives building was proposed to be \_\_\_\_\_ **(13)** \_\_\_\_\_ with a new building meant for use by researchers, according to the draft master plan. The Central Public Works Department (CPWD) was granted environment clearance for the project which includes the \_\_\_\_\_ **(14)** \_\_\_\_\_ of several buildings but the National Archives building was not mentioned in the environment clearance.

- (a) hoisted
- (b) inflicted
- (c) tackled
- (d) sliced
- (e) grossed

**Q10.** The construction of a new Parliament building and the revamp of the Central Vista Avenue have continued during the lockdown \_\_\_\_\_(9)\_\_\_\_\_ in Delhi due to the second wave of the pandemic and have been challenged in court. The Delhi High Court has reserved its judgment in the matter. The government is \_\_\_\_\_(10)\_\_\_\_\_ for the records at the National Archives and will store them safely during the Central Vista redevelopment project, Union Culture Minister said in a recent statement. Besides, it is the government's responsibility to \_\_\_\_\_(11)\_\_\_\_\_ the archives and it will continue to keep the records safely," he said when asked about the public \_\_\_\_\_(12)\_\_\_\_\_ against the proposal. As a part of the Central Vista redevelopment project, the National Archives building was proposed to be \_\_\_\_\_(13)\_\_\_\_\_ with a new building meant for use by researchers, according to the draft master plan. The Central Public Works Department (CPWD) was granted environment clearance for the project which includes the \_\_\_\_\_(14)\_\_\_\_\_ of several buildings but the National Archives building was not mentioned in the environment clearance.

- (a) culpable
- (b) virtuous
- (c) upright
- (d) benignant
- (e) novice

**Q11.** The construction of a new Parliament building and the revamp of the Central Vista Avenue have continued during the lockdown \_\_\_\_\_(9)\_\_\_\_\_ in Delhi due to the second wave of the pandemic and have been challenged in court. The Delhi High Court has reserved its judgment in the matter. The government is \_\_\_\_\_(10)\_\_\_\_\_ for the records at the National Archives and will store them safely during the Central Vista redevelopment project, Union Culture Minister said in a recent statement. Besides, it is the government's responsibility to \_\_\_\_\_(11)\_\_\_\_\_ the archives and it will continue to keep the records safely," he said when asked about the public \_\_\_\_\_(12)\_\_\_\_\_ against the proposal. As a part of the Central Vista redevelopment project, the National Archives building was proposed to be \_\_\_\_\_(13)\_\_\_\_\_ with a new building meant for use by researchers, according to the draft master plan. The Central Public Works Department (CPWD) was granted environment clearance for the project which includes the \_\_\_\_\_(14)\_\_\_\_\_ of several buildings but the National Archives building was not mentioned in the environment clearance.

- (a) torment
- (b) sustain
- (c) plague
- (d) hound
- (e) bother

**Q12.** The construction of a new Parliament building and the revamp of the Central Vista Avenue have continued during the lockdown \_\_\_\_\_(9)\_\_\_\_\_ in Delhi due to the second wave of the pandemic and have been challenged in court. The Delhi High Court has reserved its judgment in the matter. The government is \_\_\_\_\_(10)\_\_\_\_\_ for the records at the National Archives and will store them safely during the Central Vista redevelopment project, Union Culture Minister said in a recent statement. Besides, it is the government's responsibility to \_\_\_\_\_(11)\_\_\_\_\_ the archives and it will continue to keep the records safely," he said when asked about the public \_\_\_\_\_(12)\_\_\_\_\_ against the proposal.



As a part of the Central Vista redevelopment project, the National Archives building was proposed to be \_\_\_\_\_ **(13)** \_\_\_\_\_ with a new building meant for use by researchers, according to the draft master plan. The Central Public Works Department (CPWD) was granted environment clearance for the project which includes the \_\_\_\_\_ **(14)** \_\_\_\_\_ of several buildings but the National Archives building was not mentioned in the environment clearance.

- (a) sanction
- (b) assert
- (c) mandate
- (d) dissent
- (e) upheld

**Q13.** The construction of a new Parliament building and the revamp of the Central Vista Avenue have continued during the lockdown \_\_\_\_\_ **(9)** \_\_\_\_\_ in Delhi due to the second wave of the pandemic and have been challenged in court. The Delhi High Court has reserved its judgment in the matter. The government is \_\_\_\_\_ **(10)** \_\_\_\_\_ for the records at the National Archives and will store them safely during the Central Vista redevelopment project, Union Culture Minister said in a recent statement. Besides, it is the government's responsibility to \_\_\_\_\_ **(11)** \_\_\_\_\_ the archives and it will continue to keep the records safely," he said when asked about the public \_\_\_\_\_ **(12)** \_\_\_\_\_ against the proposal. As a part of the Central Vista redevelopment project, the National Archives building was proposed to be \_\_\_\_\_ **(13)** \_\_\_\_\_ with a new building meant for use by researchers, according to the draft master plan. The Central Public Works Department (CPWD) was granted environment clearance for the project which includes the \_\_\_\_\_ **(14)** \_\_\_\_\_ of several buildings but the National Archives building was not mentioned in the environment clearance.

- (a) mustered
- (b) convened
- (c) congregated
- (d) summoned
- (e) supplanted

**Q14.** The construction of a new Parliament building and the revamp of the Central Vista Avenue have continued during the lockdown \_\_\_\_\_ **(9)** \_\_\_\_\_ in Delhi due to the second wave of the pandemic and have been challenged in court. The Delhi High Court has reserved its judgment in the matter. The government is \_\_\_\_\_ **(10)** \_\_\_\_\_ for the records at the National Archives and will store them safely during the Central Vista redevelopment project, Union Culture Minister said in a recent statement. Besides, it is the government's responsibility to \_\_\_\_\_ **(11)** \_\_\_\_\_ the archives and it will continue to keep the records safely," he said when asked about the public \_\_\_\_\_ **(12)** \_\_\_\_\_ against the proposal. As a part of the Central Vista redevelopment project, the National Archives building was proposed to be \_\_\_\_\_ **(13)** \_\_\_\_\_ with a new building meant for use by researchers, according to the draft master plan. The Central Public Works Department (CPWD) was granted environment clearance for the project which includes the \_\_\_\_\_ **(14)** \_\_\_\_\_ of several buildings but the National Archives building was not mentioned in the environment clearance.

- (a) explication
- (b) erection
- (c) wrecking
- (d) deception
- (e) fabrication

**Directions (15-19):** In each of the following questions, a sentence has been divided into four parts. One of these parts may or may not contain an error. You are required to choose the erroneous part as your response. If all the given parts are correct, then choose option (e) as your answer choice.

**Q15.** In many countries, both authorities and (A)/ security agencies are coming to see (B)/ the value of diplomacy as an important (C)/ complement to the function in security services. (D)

- (a) A
- (b) C
- (c) B
- (d) D
- (e) All are correct

**Q16.** While Jammu and Kashmir have been a problematic (A)/ region since 1947, the situation has evolved (B)/ over time, with periods of extreme violence (C)/ interspersed with periods of relative calm. (D)

- (a) C
- (b) B
- (c) D
- (d) A
- (e) All are correct

**Q17.** The poor will speak up if the (A)/ correct institutions of governance and authority (B)/ are built and instruments to (C)/ engage with them is made available. (D)

- (a) D
- (b) A
- (c) B
- (d) C
- (e) All are correct

**Q18.** A locally anchored education vision (A)/ arises from societal and political (B)/ agreements on why children in (C)/ rural areas needs to attend school. (D)

- (a) C
- (b) B
- (c) D
- (d) A
- (e) All are correct

**Q19.** While security concerns appear to (A)/ be growing in a number of Indian regions, (B)/ the personnel of security agencies (C)/ face a different kind of threat. (D)

- (a) A
- (b) C
- (c) B
- (d) D
- (e) All are correct

**Directions (20-25):** In each of the questions given below four words are given in bold. These four words may or may not be in their correct position. The sentence is then followed by options with the correct combination of words that should interchange with each other in order to make the sentence grammatically and contextually correct. Find the correct combination of the words that replace each other. If the sentence is correct as it is then select 'No interchange required' as your choice.

**Q20.** The state-owned **reliance (A)** is looking to **diversify (B)** its sources of supply in an attempt to cut down **refiner (C)** on any particular **region (D)**.

- (a) Only (A)-(C)
- (b) Only (B)-(D)
- (c) Both (A)-(B) and (C)-(D)
- (d) Both (A)-(C) and (B)-(D)
- (e) No interchange needed

**Q21.** The **commuters (A)** is gearing up to enable **company (B)** to **book (C)** a bus seat using the **application (D)**.

- (a) Only (A)-(D)
- (b) Only (B)-(D)
- (c) Both (A)-(B)
- (d) Both (A)-(C) and (B)-(D)
- (e) No interchange needed

**Q22.** India is on track to **attract (A)** foreign direct investment in the current **business (B)** on account of economic **reform (C)** and ease of doing **fiscal (D)**.

- (a) Only (A)-(D)
- (b) Only (B)-(D)
- (c) Both (A)-(B)
- (d) Both (B)-(C)
- (e) No interchange needed

**Q23.** The E-commerce firm said it had **customer (A)** a **festive (B)** jump in its **recorded (C)** base during the first 36 hours of its **twofold (D)** season sale.

- (a) Only (A)-(D)
- (b) Only (B)-(D)
- (c) Both (A)-(B) and (C)-(D)
- (d) Both (A)-(C) and (B)-(D)
- (e) No interchange needed

**Q24.** The government must take **formation (A)** for its **actions (B)** and allow the **responsibility (C)** of a new **interim (D)** government.



- (a) (A) – (C)
- (b) (C) – (D)
- (c) (B) – (D)
- (d) (A) - (D)
- (e) No interchange required

**Q25.** The first month of the new **collections (A)** year has **yielded (B)** a sharp **surge (C)** in Goods and Services Tax **financial (D)**

- (a) (A) – (C)
- (b) (C) – (D)
- (c) (B) – (D)
- (d) (A) - (D)
- (e) No interchange required

**Directions (26-30):** In each of the following questions, a grammatically correct and contextually meaningful sentence has been divided into four parts. You are required to choose the correct rearrangement of the given parts to form a coherent sentence. If the given parts have been placed in the correct sequential order and do not require rearrangement then choose option (e) as your answer choice.

**Q26.** has managed to significantly increase the (A)/ foundational literacy and numeracy skills of (B)/ children between March and May this year (C)/ the commission for the protection of child rights (D)

- (a) DABC
- (b) CDAB
- (c) ABDC
- (d) BCDA
- (e) No rearrangement required

**Q27.** in yet another effort to revive interest in its land (A)/ pooling policy, the development department (B)/ announced the reopening of its (C)/ application window for the scheme (D)

- (a) BCAD
- (b) CBDA
- (c) BDAC
- (d) DACB
- (e) No rearrangement required

**Q28.** powers, and the political turmoil (A)/ the war in Europe, backed by western (B)/ in South Asia dominate (C)/ newspaper headlines today (D)

- (a) CDBA
- (b) BACD
- (c) ACBD
- (d) DBAC
- (e) No rearrangement required

**Q29. keep a close eye on developments, (A)/ they can only deal with the present threat (B)/ while the country's security agencies (C)/ it's important to remember that (D)**

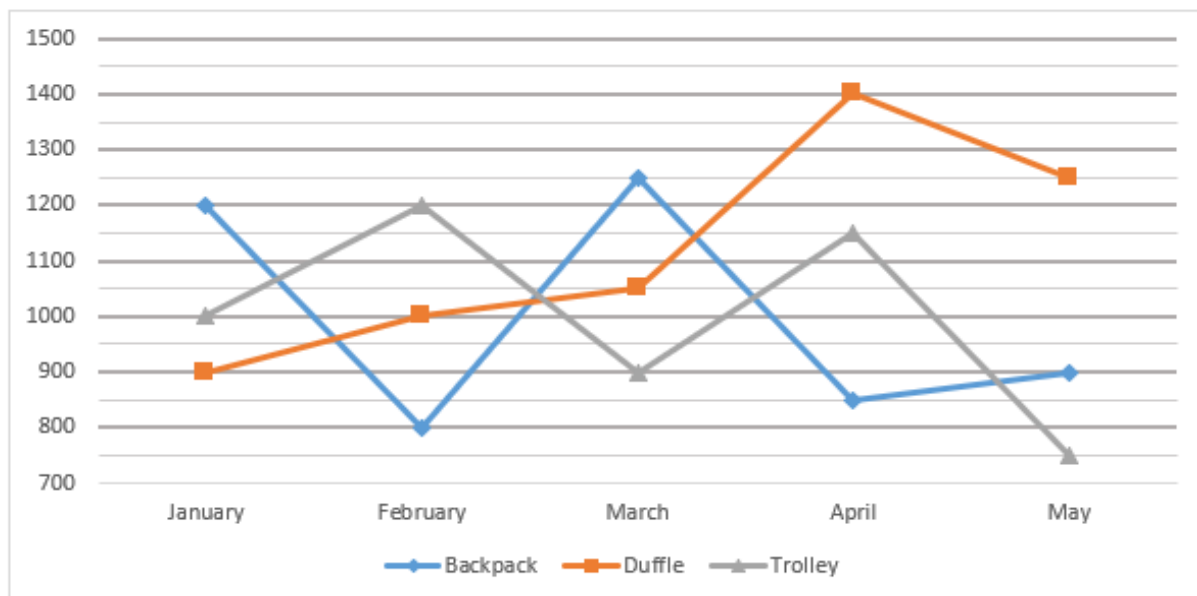
- (a) DBCA
- (b) ADCB
- (c) BDCA
- (d) CADB
- (e) No rearrangement required

**Q30. various media reports in recent years have (A)/ highlighted the steep drop in learning results (B)/ as information on school education is (C)/ collected to fix errors and reward achievements (D)**

- (a) CDBA
- (b) BACD
- (c) BDCA
- (d) CADB
- (e) No rearrangement required

**Directions (31-35): Study the given line graph carefully and answer the following questions based on it.**

**The line graph given below shows the number of bags (Backpack + Duffle + Trolley) sold by a company in five different months.**



**Q31. Total number of bags sold in February and March together is what percent of number of bags sold in May and January together.**

- (a)  $103\frac{1}{3}\%$
- (b)  $111\frac{1}{3}\%$
- (c)  $109\frac{2}{3}\%$
- (d) 40%
- (e) 100%

**Q32. Find the difference between average number of backpacks sold in March and April and average number of Duffle bags sold in February and March.**

- (a) 0
- (b) 20
- (c) 10
- (d) 25
- (e) 30

**Q33. In June average number of bags sold are 25% more than the average number of bags sold in February. If in June, Duffle bags sold are  $14\frac{2}{7}\%$  more than Trolley bag sold and 20% less than Backpack sold, then find the total Duffle bag sold in June.**

- (a) 1250
- (b) 1650
- (c) 1200
- (d) 1350
- (e) 1450

**Q34. Trolley bag sold in February is what percentage more/less than the Backpack sold in May.**

- (a) 25%
- (b) 40%
- (c) 30%
- (d)  $16\frac{2}{3}\%$
- (e)  $33\frac{1}{3}\%$

**Q35. Price of each backpack, Duffle and Trolley is Rs.50, Rs.40 and Rs.60 respectively. Find the revenue of company in April.**

- (a) Rs.127500
- (b) Rs.186500
- (c) Rs.167500
- (d) Rs.212500
- (e) Rs.148500

**Directions (36-40): What will come in the place of question (?) mark in following number series:**

**Q36. 4, 7, 13, 24, 42, 69, ?**

- (a) 91
- (b) 107
- (c) 112
- (d) 98
- (e) 102

Q37. 7, 13, 19, 29, 37, 43, ?

- (a) 61
- (b) 57
- (c) 53
- (d) 51
- (e) 55

Q38. ?, 5, 11, 23, 43, 73, 115

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

Q39. 32, ?, 24, 60, 210, 945, 5197.5

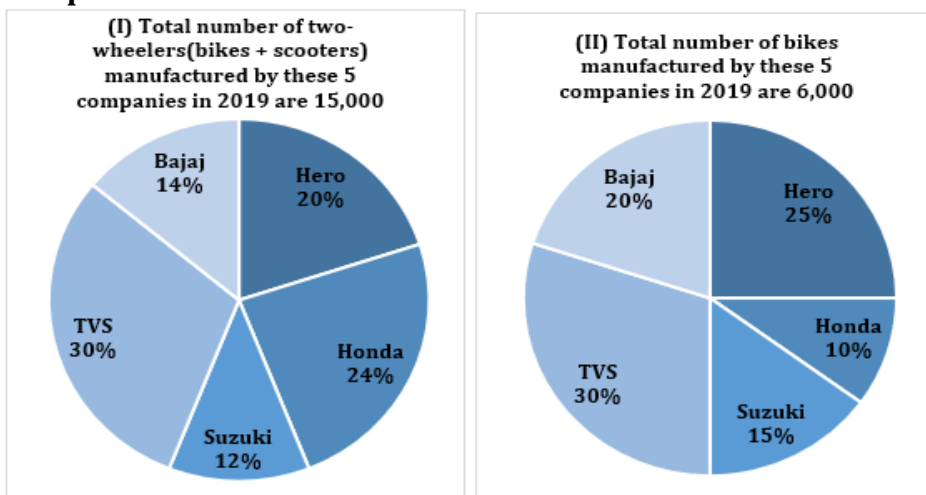
- (a) 12
- (b) 8
- (c) 15
- (d) 18
- (e) 16

Q40. 5, 3, 3, 5, 15, 69, ?

- (a) 319
- (b) 287
- (c) 361
- (d) 407
- (e) 443

Directions (41-45): Study the pie charts given below and answer the following questions.

Pie chart (I) shows the percentage distribution of total number of two-wheelers (bike + scooters) manufactured by 5 different companies (Hero, Honda, Suzuki, TVS and Bajaj) in 2019 and pie chart (II) shows the percentage distribution of the total number of bikes manufactured by these 5 companies in 2019.



**Q41. The number of bikes manufactured by Suzuki & TVS together in 2019 are what percent more or less than the number of scooters manufactured by Honda in 2019?**

- (a) 10%
- (b) 40%
- (c) 70%
- (d) 60%
- (e) 30%

**Q42. The average number of bikes manufactured by Hero, Honda & Bajaj in 2019 are how much more or less than the number of scooters manufactured by Suzuki in 2019?**

- (a) 500
- (b) 800
- (c) 600
- (d) 200
- (e) 100

**Q43. If the number of scooters manufactured by Bajaj in 2020 are 40% more than the number of scooters manufactured by Hero in 2019 and total number of two-wheelers (bikes + scooters) manufactured by Bajaj in 2020 are 500 more than total number of two-wheelers (bikes + scooters) manufactured by TVS in 2019, then find the number of bikes manufactured by Bajaj in 2020.**

- (a) 2,000
- (b) 2,900
- (c) 2,400
- (d) 3,000
- (e) None of the above.

**Q44. The number of scooters manufactured by Bajaj and Honda together in 2019 are what percent of the total number of scooters manufactured by these 5 companies in 2019?**

- (a)  $83\frac{1}{3}\%$
- (b)  $43\frac{1}{3}\%$
- (c)  $66\frac{2}{3}\%$
- (d)  $33\frac{1}{3}\%$
- (e)  $16\frac{2}{3}\%$

**Q45. Find the total number of scooters manufactured by TVS in 2019?**

- (a) 2,700
- (b) 2,100
- (c) 2,500
- (d) 2,000
- (e) 2,800

**Q46. A shopkeeper marked up of a shirt 60% above the cost price and sold at the discount of 25%, and made a profit of Rs.950. If the cost price of pant is 40% more than that of shirt and profit of both is same, then find the selling price of pant.**

- (a) Rs.6600
- (b) Rs.7200
- (c) Rs.6000
- (d) Rs.7600
- (e) Rs.8400

**Q47. Ayush invested Rs. P in scheme A which offers 12.5% per annum compound interest for two years. Ayush invested amount received from scheme A in scheme B which offers 20% simple interest per annum for 3 years. Find the value of P, if he received interest of Rs.2430.**

- (a) Rs.2700
- (b) Rs.6400
- (c) Rs.5600
- (d) Rs.4900
- (e) Rs.3200

**Q48. Harsh and Dev planned to meet each other. Dev starts to travel from point A to B at the speed of 42 kmph at 10:00 AM and Harsh starts from point B to A at the speed of 28 kmph at 12:00 PM. If they meet at 2: 30 PM, find the distance between A and B.**

- (a) 216 km
- (b) 259 km
- (c) 244 km
- (d) 263 km
- (e) 228 km

**Q49. A and B started a business with investment of Rs.32500 and Rs.40000. After 6 months, A invested Rs.2500 more while B withdraws all his money. After another 6 months, A added Rs.10000 more and C also joined him with Rs.60000. If at the end of two years, profit share of C is Rs.9600, then find the profit share of B.**

- (a) Rs.3200
- (b) Rs.3600
- (c) Rs.4000
- (d) Rs.3000
- (e) Rs.2800

**Q50. P takes 15 days more than Q to complete a piece a work while the efficiency of Q is 60% more than P. P, Q and R start working together and complete the work in 8 days. Find in how many days R alone can complete the work.**



- 
- (a) 21.5 days  
(b) 17.5 days  
(c)  $16\frac{2}{3}$  days  
(d)  $17\frac{1}{7}$  days  
(e) 16.5 days

**Q51. A bag contains certain number of coins of different denomination. The ratio of the number of Rs.1 coins, Rs. 2 coins and Rs. 5 coins is 5:6:7. respectively. Find the total value of the Rs. 5 coins, if the total value of the Rs. 1 coin in the bag is Rs. 25.**

- (a) Rs. 100  
(b) Rs. 175  
(c) Rs. 115  
(d) Rs. 145  
(e) Rs. 75

**Q52. Speed of boat in still water is 40% more than speed of the stream. If the boat can travel 96 km downstream and 40 km upstream in 14 hours, then find the time taken by boat to travel 288 km in downstream.**

- (a) 9 hours  
(b) 15 hours  
(c) 12 hours  
(d) 19 hours  
(e) 23 hours

**Q53. The average age of P, Q and R five years ago is 35 years and the average age of P and R five year hence is 40. If the age of P is 10 years less than the age of Q, then find the present age of R.**

- (a) 35 years  
(b) 50 years  
(c) 45 years  
(d) 40 years  
(e) 30 years

**Q54. A train crosses a pole and a bridge 300 meters long in 8 seconds and 20 seconds respectively. Find the time taken by train to cross a car running towards the train with speed of 54 km/h.**

- (a) 17 seconds  
(b) 15 seconds  
(c) 5 seconds  
(d) 7 seconds  
(e) 11 seconds

**Q55.** There are two jars P and Q containing a mixture of milk and water. Jar P has 20 liters of mixture which has 70% milk. Jar Q has 30 liters of mixture which has milk and water in 3:2 ratio. The content of both the jars are mixed in jar Z. What is the % of milk in the new mixture?

- (a) 22%
- (b) 38%
- (c) 42%
- (d) 75%
- (e) 64%

**Q56.** Radius of a cylinder is half of side of a square of perimeter 88 cm and height of cylinder is equal to radius of a circle of area  $616 \text{ cm}^2$ . Find the volume of cylinder (in  $\text{cm}^3$ ).

- (a) 5324
- (b) 5774
- (c) 4924
- (d) 4456
- (e) 3966

**Q57.** 84 toffees were distributed between three persons A, B and C. A received 50% less toffee than B and C received 20% more toffee than A. If B gave 25% of his share to A, then find the number of toffees A possess.

- (a) 20
- (b) 30
- (c) 25
- (d) 32
- (e) 28

**Q58.** 3 coins are tossed simultaneously. Find the probability of getting at least two tails.

- (a) 0.75
- (b) 0.4
- (c) 0.5
- (d) 0.6
- (e) 0.25

**Directions (59 -64):** In each of the following questions two equations are given. Solve these equations and give answer:

**Q59.**

**I.**  $x^2 - 16x + 55 = 0$

**II.**  $y^2 + 16y + 55 = 0$

- (a) if  $x \geq y$ , i.e., x is greater than or equal to y
- (b) if  $x > y$ , i.e., x is greater than y
- (c) if  $x \leq y$ , i.e. x is less than or equal to y
- (d) if  $x < y$ , i.e., x is less than y
- (e)  $x = y$  or no relation can be established between x and y

**Q60.**

**I.  $x^2 - 20x + 75 = 0$**

**II.  $y^2 - 13y + 42 = 0$**

- (a) if  $x \geq y$ , i.e.,  $x$  is greater than or equal to  $y$
- (b) if  $x > y$ , i.e.,  $x$  is greater than  $y$
- (c) if  $x \leq y$ , i.e.  $x$  is less than or equal to  $y$
- (d) if  $x < y$ , i.e.,  $x$  is less than  $y$
- (e)  $x = y$  or no relation can be established between  $x$  and  $y$

**Q61.**

**I.  $8x^2 - 2x - 45 = 0$**

**II.  $y^2 - 10y + 21 = 0$**

- (a) if  $x \geq y$ , i.e.,  $x$  is greater than or equal to  $y$
- (b) if  $x > y$ , i.e.,  $x$  is greater than  $y$
- (c) if  $x \leq y$ , i.e.  $x$  is less than or equal to  $y$
- (d) if  $x < y$ , i.e.,  $x$  is less than  $y$
- (e)  $x = y$  or no relation can be established between  $x$  and  $y$

**Q62.**

**I.  $x^2 + 8x + 15 = 0$**

**II.  $y^2 + 13y + 40 = 0$**

- (a) if  $x \geq y$ , i.e.,  $x$  is greater than or equal to  $y$
- (b) if  $x > y$ , i.e.,  $x$  is greater than  $y$
- (c) if  $x \leq y$ , i.e.  $x$  is less than or equal to  $y$
- (d) if  $x < y$ , i.e.,  $x$  is less than  $y$
- (e)  $x = y$  or no relation can be established between  $x$  and  $y$

**Q63.**

**I.  $x^2 - 9x + 20 = 0$**

**II.  $y^2 - 22y + 85 = 0$**

- (a) if  $x \geq y$ , i.e.,  $x$  is greater than or equal to  $y$
- (b) if  $x > y$ , i.e.,  $x$  is greater than  $y$
- (c) if  $x \leq y$ , i.e.  $x$  is less than or equal to  $y$
- (d) if  $x < y$ , i.e.,  $x$  is less than  $y$
- (e)  $x = y$  or no relation can be established between  $x$  and  $y$

**Q64.**

**I.  $x^2 - 7x + 6 = 0$**

**II.  $y^2 - 14y + 48 = 0$**

- (a) if  $x \geq y$ , i.e.,  $x$  is greater than or equal to  $y$
- (b) if  $x > y$ , i.e.,  $x$  is greater than  $y$
- (c) if  $x \leq y$ , i.e.  $x$  is less than or equal to  $y$
- (d) if  $x < y$ , i.e.,  $x$  is less than  $y$
- (e)  $x = y$  or no relation can be established between  $x$  and  $y$

**Q65.** Pipe A and pipe B together can fill the tank in 12 minutes while pipe A, pipe B and pipe C together can fill the tank in 15 minutes and Pipe B and Pipe C together can fill the tank in 30 minutes. In how much time pipe A alone can fill the tank completely. (in minutes)

- (a) 20
- (b) 60
- (c) 40
- (d) 30
- (e) 50

**Directions (66-68):** In each of the questions below some statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

**Q66. Statements:**

No pen is pencil.

No pencil is rubber.

All pen is marker.

**Conclusion:**

**I.** All rubber can be marker

**II.** Some marker can be rubber

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q67. Statements:**

Only a few bottle are glass.

Only mug is bowl.

Some mug is glass.

**Conclusion:**

**I.** No bowl is glass

**II.** Some bottle is not mug

- (a) If only conclusion I follows.
- (b) If only conclusion II follows.
- (c) If either conclusion I or II follows.
- (d) If neither conclusion I nor II follows.
- (e) If both conclusions I and II follow.

**Q68. Statements:**

All queen are king.

No king is jack.

All jack are ace.

**Conclusion:**

I. No Ace is queen

II. Some queen are ace

(a) If only conclusion I follows.

(b) If only conclusion II follows.

(c) If either conclusion I or II follows.

(d) If neither conclusion I nor II follows.

(e) If both conclusions I and II follow.

**Directions (69-73): Study the following information and answer the questions given below.**

Eight persons A, S, D, F, G, H, Q and W were born in eight different years viz. 1960, 1971, 1976, 1985, 1992, 1996, 2004 and 2006 but not necessarily in the same order. They all born on the same date and in the same month of different years. The age of all the persons will be calculated as of 2021.

D was born in an odd year. The number of persons born before D is same as the number of persons born after A. The age of F is a prime number. Three persons were born between F and H. W was born just before G. Age difference between G and S is same as the age difference between H and D. S is not the youngest person among all.

**Q69. Q was born in which of the following year?**

(a) 1996

(b) 2006

(c) 1985

(d) 1976

(e) None of these

**Q70. What is the age of W?**

(a) 61 years

(b) 50 years

(c) 45 years

(d) 36 years

(e) None of these

**Q71. Who among the following is the oldest person among all?**

(a) H

(b) F

(c) W

(d) Either H or W

(e) None of these

**Q72. What is the difference between the ages of Q and G?**

- (a) 30
- (b) 25
- (c) 20
- (d) 21
- (e) None of these

**Q73. How many persons were born between H and S?**

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

**Directions (74-77): Study the given information carefully to answer the questions below:  
In a certain code language**

“Some IPS are IAS” is coded as “ic qw sy ol”

“All IAS are SDM” is coded as “ol ab qw rh”

“Some officers are SDM” is coded as “ic xk ol rh”

“Some SDM will become DM” is coded as “ea yu ic di rh”

**Q74. What is the code for ‘officers’ in the given code language?**

- (a) xk
- (b) ol
- (c) ic
- (d) Either xk or ol
- (e) None of these

**Q75. What will be the code for ‘IPS are officers’ in the given code language?**

- (a) qw sy ol
- (b) ic xk ol
- (c) ab qw rh
- (d) sy xk ol
- (e) None of these

**Q76. The code ‘ab’ is used for which among the following words?**

- (a) IAS
- (b) Are
- (c) All
- (d) SDM
- (e) None of these



**Q77. What is the code for 'become' according to the given code language?**

- (a) ic
- (b) ea
- (c) yu
- (d) di
- (e) Can't be determined

**Directions (78-82): Study the information below to answer the questions given below.**

Ten boxes are placed one above the other in a stack. More than six boxes are placed below V. The number of boxes placed below S is same as the number of boxes placed above V. T is placed three places above S. Z is placed exactly between V and T. Four boxes are placed between D and G which is placed below D. K is placed immediate above Q and both of them are placed above G. C is not placed adjacent to V and B.

**Q78. How many boxes are placed above B?**

- (a) None
- (b) One
- (c) Two
- (d) Three
- (e) More than three

**Q79. How many boxes are placed between C and D?**

- (a) One
- (b) Three
- (c) Five
- (d) Seven
- (e) None of these

**Q80. Four among the following five are alike in a certain way related to a group, find the one which does not belong to that group?**

- (a) V-Z
- (b) K-G
- (c) T-S
- (d) B-D
- (e) Q-C

**Q81. Which among the following box is placed at second position from bottom?**

- (a) S
- (b) B
- (c) C
- (d) G
- (e) None of these

**Q82.** The number of boxes placed between Q and T is same as the number of boxes placed above \_\_\_\_.

- (a) K
- (b) Z
- (c) D
- (d) B
- (e) None of these

**Directions (83-87):** Study the given number series and answer the questions below:  
**198    375    843    612    437**

**Q83.** If all the numbers are arranged in ascending order from right end, then which among the following numbers will be second from left end?

- (a) 198
- (b) 375
- (c) 612
- (d) 437
- (e) 843

**Q84.** If all the digits are arranged in descending order from left end within the number, then which among the following will become the third highest number?

- (a) 843
- (b) 375
- (c) 198
- (d) 437
- (e) 612

**Q85.** If in each number, second and third digit are interchanged within the number, then how many even numbers will form after the rearrangement?

- (a) One
- (b) Two
- (c) Three
- (d) Four
- (e) Five

**Q86.** What will be the resultant when the fifth number from right end is subtracted from the third number from left end in the series?

- (a) 414
- (b) 406
- (c) 177
- (d) 645
- (e) None of these

**Q87. What will be the sum of all the digits of the fourth lowest number in the given series?**

- (a) 18
- (b) 14
- (c) 15
- (d) 9
- (e) None of these

**Directions (88-92): Study the given information carefully and answer the following questions given below.**

Eight persons A, S, D, F, M, N, B and V sit around a rectangular table but not necessarily in the same order. Four persons sit at the corner of the table and remaining four sit at the middle of sides of the table. The persons sit at corner face inside and the persons sit at middle of sides of the table face outside.

M sits third to right of V. One person sits between M and S. B sits second to the left of S. D sits adjacent to S but not opposite to V. N sits diagonally opposite to the one who sits immediate right of F. A does not sit at any corner of the table.

**Q88. Who among the following sits opposite to A?**

- (a) S
- (b) V
- (c) N
- (d) D
- (e) None of these

**Q89. How many persons sit between B and F when counted to the right of F?**

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

**Q90. Who among the following faces N?**

- (a) V
- (b) S
- (c) B
- (d) D
- (e) None of these

**Q91. Four among the following five are same in a certain way and related to a group. Which among the following does not belong to the group?**

- (a) M-F
- (b) A-D
- (c) F-V
- (d) B-M
- (e) N-S

**Q92. What is the position of A with respect to F?**

- (a) Fourth to the right
- (b) Second to the left
- (c) Immediate right
- (d) Third to the left
- (e) Second to the right

**Q93. How many pair of letters are there in the word 'COVERAGE', each of which have as many letters between them (both forward and backward direction) as they have between them according to English alphabetical order?**

- (a) One
- (b) Two
- (c) Three
- (d) None
- (e) More than three

**Directions (94-95): Study the following information and answer the questions below:**

Six balls P, Q, R, S, T and W are arranged in a row according to their weight in descending order from left to right but not necessarily in the given order.

Four balls are heavier than R. Three balls are there between R and P. P is heavier than S which is heavier than T. T is not the lightest ball among all. W is just heavier to R.

**Q94. Which among the following ball is just heavier to Q?**

- (a) T
- (b) S
- (c) R
- (d) P
- (e) None of these

**Q95. How many balls are heavier than T?**

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

**Directions (96-100): Study the information carefully and answer the questions given below.**

Six employees work in a bank at different post viz. clerk, PO, AM, MG, DGM and GM. All the designations given are to be considered in a given order (as GM is considered as Senior-most and Clerk is considered as the Junior-most). Each of them likes different brand of Mobiles.

Only three persons are senior to C who likes Vivo. F is neither PO nor MG. The one who likes OnePlus Mobile is just senior to F. A is senior to B. E is senior to the one who likes Realme Mobile and junior to the one who likes Apple Mobile. The one who likes Samsung Mobile is senior to the one who likes Xiaomi Mobile and junior to D. E is junior to D. B and F does not like Apple Mobile. E is neither MG nor DGM. The one who likes Xiaomi Mobile is not MG.

**Q96. Who among the following likes Xiaomi mobile?**

- (a) B
- (b) F
- (c) E
- (d) A
- (e) None of these

**Q97. Who among the following is clerk?**

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

**Q98. The person who is GM likes which of the following mobile?**

- (a) Xiaomi
- (b) OnePlus
- (c) Apple
- (d) Samsung
- (e) None of these

**Q99. How many persons are junior to D?**

- (a) Four
- (b) Two
- (c) Three
- (d) More than four
- (e) None

**Q100. Which of the following statement is true about F?**

- (a) F likes Xiaomi mobile
- (b) More than three persons are junior to F
- (c) F is AM of the bank
- (d) F is just junior to C
- (e) None of these

## Solutions

**S1. Ans.(c)**

**Sol.** As per the information provided in the last lines of the second paragraph, we can infer that the lack of explicit communications from Moscow allows for misinterpretations and exaggerations by Ukraine and its western supporters.

**S2. Ans.(a)**

**Sol.** Among the given options, only statement (a) is correct with reference to the context of the given question. Refer to the starting lines of the first paragraph, "The recent stand-off between Russia and Ukraine has captured headlines in the international news media. This geopolitical situation appears to be complex due to the indirect involvement of its multiple stakeholders, including the United States, Turkey and the North Atlantic Treaty Organization (NATO)."

**S3. Ans.(e)**

**Sol.** Among the given options, both (a) and (b) statements are correct. Refer to the starting lines of the second paragraph, "The Ukrainian President's visit to Istanbul to mark the 10th anniversary of Ukraine's strategic partnership with Turkey was also an opportunity for him to be reassured by the Turkish President that Turkey stands by Ukraine amidst the current tensions with Russia. During the bilateral meeting, both leaders discussed the security issues in the Black Sea region."

**S4. Ans.(e)**

**Sol.** On referring to the third paragraph thoroughly, we can infer that all of the given statements are correct with reference to the context of the given question.

**S5. Ans.(e)**

**Sol.** Based on the information provided, there is no incorrect statement about the Russian President. Refer to the starting line of the third paragraph, "The Russian President has been known for his geopolitical adventures, especially in West Asia. In the case of eastern Ukraine, it is highly unlikely that he would be willing to make further territorial gains this time around. He possesses enough diplomatic skills not to indulge in yet another geopolitical endeavour, that might entail serious repercussions from the international community."

**S6. Ans.(b)**

**Sol.** Among the given options, only statement (b) is correct with reference to the context of the given question. While the rest of the statements are incoherent. Refer to the fourth line of the second paragraph, "Arguably, the cornerstone of the Russia-Ukraine conflict is insufficient communication. Thus, it is very difficult, if not impossible, to speculate on the overarching rationale behind Russia's tactical decisions towards Ukraine."

**S7. Ans.(e)**

**Sol.** Here, "vicious" means deliberately cruel or violent.



- (a) ferocious- savagely fierce, cruel, or violent.
- (b) barbaric- savagely cruel.
- (c) ruthless- having or showing no pity or compassion for others.
- (d) dreadful- causing or involving great suffering.
- (e) altruistic- showing a wish to help or bring advantages to others.

**S8. Ans.(a)**

**Sol.** Here, “desperate” means having a great need or desire for something.

- (a) longing- to have a strong wish or desire.
- (b) jovial- cheerful and friendly.
- (c) gladsome- (of a person) having a cheerful disposition.
- (d) buoyant- cheerful and optimistic.
- (e) bubbly- (of a person) full of cheerful high spirits.

**S9. Ans.(b)**

**Sol.** Among the given options, “inflicted” is the most appropriate word to fill in the given blank.

- (a) hoisted- to raise (something) by means of ropes and pulleys.
- (b) inflicted- to impose something unwelcome.
- (c) tackled- to make determined efforts to deal with (a problem or difficult task).
- (d) sliced- to cut (something, especially food) into slices.
- (e) grossed- to produce or earn (an amount of money) as gross profit or income.

**S10. Ans.(a)**

**Sol.** Among the given options, “culpable” is the most appropriate word to fill in the given blank.

- (a) culpable- deserving to be blamed or considered responsible for something bad.
- (b) virtuous- having or showing high moral standards.
- (c) upright- strictly honorable or honest.
- (d) benignant- having a good effect; beneficial.
- (e) novice- a person new to and inexperienced in a job or situation.

**S11. Ans.(b)**

**Sol.** Among the given options, “sustain” is the most appropriate word to fill in the given blank.

- (a) torment- severe physical or mental suffering.
- (b) sustain- cause to continue for an extended period or without interruption.
- (c) plague- cause continual trouble or distress too.
- (d) hound- harass, persecute, or pursue relentlessly.
- (e) bother- take the trouble to do something.

**S12. Ans.(d)**

**Sol.** Among the given options, “dissent” is the most appropriate word to fill in the given blank.

- (a) sanction- a threatened penalty for disobeying a law or rule.
- (b) assert- state a fact or belief confidently and forcefully.
- (c) mandate- an official order or commission to do something.
- (d) dissent- a strong difference of opinion on a particular subject.
- (e) uphold- confirm or support (something which has been questioned).

**S13. Ans.(e)**

**Sol.** Among the given options, “supplanted” is the most appropriate word to fill in the given blank.

- (a) mustered- to collect or assemble (a number or amount).
- (b) convened- to come or bring together for a meeting or activity; assemble.
- (c) congregated- to gather into a crowd or mass.
- (d) summoned- to order (someone) to be present.
- (e) supplanted- to take the place of (something or someone).

**S14. Ans.(c)**

**Sol.** Among the given options, “wrecking” is the most appropriate word to fill in the given blank.

- (a) explication- the process of analyzing and developing an idea or principle in detail.
- (b) erection- a building or other upright structure.
- (c) wrecking- destroy or severely damage (a structure, vehicle, or similar).
- (d) deception- a statement or action that hides the truth, or the act of hiding the truth.
- (e) fabrication- the action or process of manufacturing or inventing something.

**S15. Ans.(d)**

**Sol.** The error lies in part (D). Here, the preposition “in” should be replaced with “of” to make the given sentence grammatically correct.

**S16. Ans.(d)**

**Sol.** The error lies in part (A). Here, “have” should be replaced with “has” to make the given sentence grammatically correct as “Jammu and Kashmir” together denotes a singular noun.

**S17. Ans.(a)**

**Sol.** The error lies in part (D). Here, “is” should be replaced with “are” to make the given sentence grammatically correct as the given part of the sentence emphasizes the term “instruments” which makes a plural sense.

**S18. Ans.(c)**

**Sol.** The error lies in part (D). Here, “needs” should be replaced with “need” to make the given sentence grammatically correct.

**S19. Ans.(e)**

**Sol.** All of the given parts are correct and form a contextually meaningful sentence.

**S20. Ans.(a)**

**Sol.** In order to make the sentence meaningful, we need to interchange ‘reliance’ with ‘refiner’. Therefore the meaningful sentence will be, “The state-owned **refiner** is looking to **diversify** its sources of supply in an attempt to cut down **reliance** on any particular **region**.”

**S21. Ans.(c)**

**Sol.** In order to make to sentence meaningful, we need to interchange 'commuters' with 'company'. Therefore the meaningful sentence will be, "The **company** is gearing up to enable **commuters** to **book** a bus seat using the **application**"

**S22. Ans.(b)**

**Sol.** In order to make to sentence meaningful, we need to interchange 'fiscal' with 'business'. Therefore the meaningful sentence will be, "India is on track to **attract** foreign direct investment in the current **fiscal** on account of economic **reforms** and ease of doing **business**".

**S23. Ans.(d)**

**Sol.** In order to make to sentence meaningful, we need to interchange 'customer' with 'recorded' and 'festive' with 'twofold'. Therefore, the meaningful sentence will be, "The E-commerce firm said it had **recorded** a **twofold** jump in its **customer** base during the first 36 hours of its **festive** season sale."

**S24. Ans.(a)**

**Sol.** We need to interchange (A)-(C) to make sentence contextually meaningful. Therefore, the correct sentence will be "The family must take responsibility for its actions and allow the formation of a new interim government."

**S25. Ans.(d)**

**Sol.** We need to interchange (A)-(D) to make sentence contextually meaningful. Therefore, the correct sentence will be "The first month of the new financial year has yielded a sharp surge in Goods and Services Tax collections"

**S26. Ans.(a)**

**Sol.** The correct rearrangement of the given parts would be "DABC". The sentence thus formed would be "The commission for the protection of child rights has managed to significantly increase the foundational literacy and numeracy skills of children between March and May this year."

**S27. Ans.(e)**

**Sol.** The given parts have been arranged in the correct sequential order. Thus, no rearrangement is required.

**S28. Ans.(b)**

**Sol.** The correct rearrangement of the given parts would be "BACD". The sentence thus formed would be "The war in Europe, backed by western powers, and the political turmoil in South Asia dominate newspaper headlines today."

**S29. Ans.(d)**

**Sol.** The correct rearrangement of the given parts would be "CADB". The sentence thus formed would be "While the country's security agencies keep a close eye on developments, it's important to remember that they can only deal with the present threat."

**S30. Ans.(e)**

**Sol.** The given parts have been arranged in the correct sequential order. Thus, no rearrangement is required.

**S31. Ans.(a)**

**Sol.**

$$\begin{aligned}\text{Total no. of bags sold in February and March together} \\ &= (800 + 1000 + 1200) + (1250 + 1050 + 900) \\ &= 6200\end{aligned}$$

$$\begin{aligned}\text{Total no. of bags sold in May and January} \\ &= (900 + 1250 + 750) + (1200 + 900 + 1000) \\ &= 6000\end{aligned}$$

$$\text{So, required percentage} = \frac{6200}{6000} \times 100 = 103\frac{1}{3}\%$$

**S32. Ans.(d)**

**Sol.**

$$\text{Average no. of backpack sold in March and April} = \frac{1}{2} \times (1250 + 850) = 1050$$

$$\text{Average no. of Duffle bag sold in February and March} = \frac{1}{2} \times (1000 + 1050) = 1025$$

$$\text{Required difference} = 1050 - 1025 = 25$$

**S33. Ans.(c)**

**Sol.**

$$\begin{aligned}\text{Total no. of bags sold in June} &= 3 \times \frac{5}{4} \times \frac{1}{3} \times (800 + 1000 + 1200) \\ &= 3750\end{aligned}$$

$$\text{Let Backpack sold in June be } 10x$$

$$\text{Duffle bag sold in June} = 10x \times \frac{80}{100} = 8x$$

$$\text{Trolley bag sold in June} = 8x \times \frac{7}{8} = 7x$$

$$\text{So, Duffle bag sold in June} = \frac{8x}{25x} \times 3750 = 1200$$

**S34. Ans.(e)**

**Sol.**

$$\begin{aligned}\text{Required percentage} &= \frac{1200 - 900}{900} \times 100 \\ &= 33\frac{1}{3}\%\end{aligned}$$

**S35. Ans.(c)**

**Sol.**

$$\begin{aligned}\text{Required amount} &= 850 \times 50 + 1400 \times 40 + 1150 \times 60 \\ &= 42500 + 56000 + 69000 \\ &= \text{Rs. } 167500\end{aligned}$$

**S36. Ans.(b)**

**Sol.**

The pattern of the series is –

$$4 + (1^2 + 2) = 7$$

$$7 + (2^2 + 2) = 13$$

$$13 + (3^2 + 2) = 24$$

$$24 + (4^2 + 2) = 42$$

$$42 + (5^2 + 2) = 69$$

$$69 + (6^2 + 2) = 107$$

**S37. Ans.(c)**

**Sol.**

The series is set of alternate prime numbers.

7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53

**S38. Ans.(c)**

**Sol.**

The pattern of the series is –

$$3 + (1 \times 2) = 5$$

$$5 + (2 \times 3) = 11$$

$$11 + (3 \times 4) = 23$$

$$23 + (4 \times 5) = 43$$

$$43 + (5 \times 6) = 73$$

$$73 + (6 \times 7) = 115$$

**S39. Ans.(e)**

**Sol.**

The pattern of the series is –

$$32 \times 0.5 = 16$$

$$16 \times 1.5 = 24$$

$$24 \times 2.5 = 60$$

$$60 \times 3.5 = 210$$

$$210 \times 4.5 = 945$$

$$945 \times 5.5 = 5197.5$$

**S40. Ans.(d)**

**Sol.**

The pattern of the series is –

$$5 \times 1 - 2 = 3$$

$$3 \times 2 - 3 = 3$$

$$3 \times 3 - 4 = 5$$

$$5 \times 4 - 5 = 15$$

$$15 \times 5 - 6 = 69$$

$$69 \times 6 - 7 = 407$$

**S41. Ans.(a)**

**Sol.**

$$\text{Number of bikes manufactured by Suzuki \& TVS together in 2019} = 6,000 \times \frac{15+30}{100} \\ = 2,700$$

$$\text{Number of scooters manufactured by Honda in 2019} = \left(15,000 \times \frac{24}{100}\right) - \left(6,000 \times \frac{10}{100}\right) \\ = 3,600 - 600 \\ = 3,000$$

$$\text{Required \%} = \frac{3,000-2,700}{3,000} \times 100 \\ = 10\%$$

**S42. Ans.(d)**

**Sol.**

$$\text{Average number of bikes manufactured by Hero, Honda \& Bajaj in 2019} = \frac{1}{3} \times \left(6,000 \times \frac{25+10+20}{100}\right) \\ = \frac{1}{3} \times 3,300 \\ = 1,100$$

$$\text{Number of scooters manufactured by Suzuki in 2019} = \left(15,000 \times \frac{12}{100}\right) - \left(6,000 \times \frac{15}{100}\right) \\ = 1,800 - 900 \\ = 900$$

$$\text{Required difference} = 1,100 - 900 \\ = 200$$

**S43. Ans.(b)**

**Sol.**

$$\text{Total number of two-wheelers (bikes + scooters) manufactured by Bajaj in 2020} = 500 + \\ \left(15,000 \times \frac{30}{100}\right) \\ = 5,000$$

$$\text{Number of scooters manufactured by Bajaj in 2020} = \frac{140}{100} \times \left(\left(15,000 \times \frac{20}{100}\right) - \left(6,000 \times \frac{25}{100}\right)\right) \\ = \frac{140}{100} \times (3,000 - 1,500) \\ = 2,100$$

$$\text{Hence, number of bikes manufactured by Bajaj in 2020} = 5,000 - 2,100 \\ = 2,900$$

**S44. Ans.(b)**

**Sol.**

$$\text{Number of scooters manufactured by Bajaj and Honda together in 2019} \\ = \left(15,000 \times \frac{14+24}{100}\right) - \left(6,000 \times \frac{20+10}{100}\right) \\ = 5,700 - 1,800 \\ = 3,900$$

$$\text{Total number of scooters manufactured by these 5 companies in 2019} = 15,000 - 6,000 \\ = 9,000$$

$$\text{Required \%} = \frac{3,900}{9,000} \times 100 \\ = 43\frac{1}{3}\%$$



**S45. Ans.(a)**

**Sol.**

$$\begin{aligned}\text{Required number of scooters} &= \left(15,000 \times \frac{30}{100}\right) - \left(6,000 \times \frac{30}{100}\right) \\ &= 4,500 - 1,800 \\ &= 2,700\end{aligned}$$

**S46. Ans.(d)**

**Sol.**

Let cost price of a shirt be  $100x$ .

Marked price of shirt =  $160x$

$$\text{Selling price of shirt} = 160x \times \frac{75}{100} = 100x + 950$$

$$20x = 950$$

$$x = \frac{95}{2}$$

$$\begin{aligned}\text{So, selling price of pant} &= 100 \times \frac{140}{100} \times \frac{95}{2} + 950 \\ &= \text{Rs. } 7600\end{aligned}$$

**S47. Ans.(e)**

**Sol.**

$$\begin{aligned}\text{Amount received from scheme A} &= P \left(1 + \frac{12.5}{100}\right)^2 \\ &= \frac{81}{64} P\end{aligned}$$

$$\text{Interest received from scheme B} = \frac{\frac{81}{64} P \times 20 \times 3}{100} = 2430$$

$$\text{So, } P = \frac{2430 \times 5 \times 64}{81 \times 3} = 3200$$

**S48. Ans.(b)**

**Sol.**

Let required distance be  $D$  km.

$$\text{Distance covered by Dev till 12:00 PM} = 42 \times 2 = 84$$

$$\text{Time taken by them to meet each other} = \frac{D-84}{42+28} = 2.5$$

$$\begin{aligned}\text{So, required distance} &= D = 2.5 \times 70 + 84 \\ &= 259 \text{ km}\end{aligned}$$

**S49. Ans.(a)**

**Sol.**

Ratio of profit share of A, B and C =

$$\begin{aligned}&= 32500 \times 6 + 35000 \times 6 + 45000 \times 12 : 40000 \times 6 : 60000 \times 12 \\ &= 63 : 16 : 48\end{aligned}$$

$$\text{So, required profit share} = \frac{16}{48} \times 9600 = \text{Rs. } 3200$$

**S50. Ans.(c)**

**Sol.**

Let Q takes T days to complete the work.

So, P takes T+15 days.

Ratio of efficiency of P to Q is T & T+15 respectively.

ATQ.

$$\frac{T}{T+15} = \frac{5}{8}$$

$$T = 25$$

So, P and Q takes 40 days and 25 days respectively.

Let total work be 200 units (LCM of 40 and 25) and efficiency of R be a.

$$\text{So, } (5 + 8 + a) \times 8 = 200$$

$$a = 12$$

$$\text{So, required time} = \frac{200}{12} = 16\frac{2}{3} \text{ days}$$

**S51. Ans.(b)**

**Sol.**

Let the number of coins of Rs. 1, Rs. 2 coins and Rs. 5 coins is  $5x, 6x, 7x$

The total value of the Rs. 1 coin in the bag is Rs. 25

The number of coins of Rs. 1 in a bag = 25

$$5x = 25$$

$$x = 5$$

Total value of the Rs. 5 coins

$$7 \times 5 \times 5 = \text{Rs. } 175$$

**S52. Ans.(c)**

**Sol.**

Let the speed of the stream =  $5x$

$$\text{Speed of boat in still water} = 5x \times \frac{140}{100} = 7x$$

According to ques.

$$\frac{96}{12x} + \frac{40}{2x} = 14$$

$$\frac{8}{x} + \frac{20}{x} = 14$$

$$\frac{28}{14} = x$$

$$x = 2$$

$$\text{The speed of the stream} = 5x = 5 \times 2 = 10 \text{ km/h}$$

$$\text{Speed of boat in still water} = 7x = 7 \times 2 = 14 \text{ km/h}$$

$$\text{Req. time} = \frac{288}{14+10} = 12 \text{ hours}$$

**S53. Ans.(e)**

**Sol.**

Sum of present ages of P, Q and R

$$P+Q+R = 35 \times 3 + 15 = 120 \text{ years} \dots\dots (i)$$

Sum of present ages of P & R

$$P+R = 40 \times 2 - 10 = 70 \text{ years} \dots\dots (ii)$$

From (i) & (ii)

$$Q = 50 \text{ years}$$

P is 10 years less than the age of Q

$$\text{So, } P = 40 \text{ years}$$

$$\text{Present age of R} = 70 - 40 = 30 \text{ years}$$

**S54. Ans.(c)**

**Sol.**

Let the length of train be ' $x$ ' meter

ATQ,

$$\frac{x}{8} = \frac{x + 300}{20}$$

$$20x = 8x + 2400$$

$$x = 200$$

$$\text{Speed of train} = \frac{200}{8} = 25 \text{ m/sec}$$

$$\text{Speed of car in m/sec} = 54 \times \frac{5}{18} = 15 \text{ m/sec}$$

$$\text{Req. time} = \frac{200}{25+15} = 5 \text{ seconds}$$

**S55. Ans.(e)**

**Sol.**

$$\text{Quantity of milk in jar P} = 20 \times \frac{70}{100} = 14 \text{ liter}$$

$$\text{Quantity of water in jar P} = 20 \times \frac{30}{100} = 6 \text{ liter}$$

$$\text{Quantity of milk in jar Q} = 30 \times \frac{3}{5} = 18 \text{ liter}$$

$$\text{Quantity of water in jar Q} = 30 \times \frac{2}{5} = 12 \text{ liter}$$

$$\text{Quantity of milk in jar Z} = 14 + 18 = 32 \text{ liter}$$

$$\text{Quantity of water in jar Z} = 6 + 12 = 18 \text{ liter}$$

$$\text{Req. \%} = \frac{32}{50} \times 100 = 64\%$$

**S56. Ans.(a)**

**Sol.**

$$\text{Side of square} = \frac{88}{4} = 22 \text{ cm}$$

$$\text{Radius of cylinder} = \frac{22}{2} = 11 \text{ cm}$$

$$\text{Radius of circle} = \sqrt{616 \times \frac{7}{22}} = 14 \text{ cm}$$

Height of cylinder = 14 cm

$$\begin{aligned}\text{So, volume of cylinder} &= \frac{22}{7} \times 11 \times 11 \times 14 \\ &= 5324 \text{ cm}^3\end{aligned}$$

**S57. Ans.(b)**

**Sol.**

Respective ratio of share of toffee for A and B = 1: 2

Respective ratio of share of toffee for A and C = 5: 6

So, Respective ratio of share of toffee for A, B and C = 5: 10: 6

$$\text{Share of toffee for B} = \frac{10}{21} \times 84 = 40$$

$$\begin{aligned}\text{Share of toffee for A} &= \frac{5}{21} \times 84 + \frac{25}{100} \times 40 \\ &= 20 + 10 = 30\end{aligned}$$

**S58. Ans.(c)**

**Sol.**

$$\text{Total possible outcome} = 2^3 = 8$$

$$\text{Favorable outcome} = 4 \text{ (TTH, THT, HTT, TTT)}$$

$$\text{So, Required probability} = \frac{4}{8} = 0.5$$

**S59. Ans.(b)**

**Sol.**

$$\text{I. } x^2 - 16x + 55 = 0$$

$$x^2 - 11x - 5x + 55 = 0$$

$$x(x - 11) - 5(x - 11) = 0$$

$$(x - 11)(x - 5) = 0$$

$$x = 11, 5$$

$$\text{II. } y^2 + 16y + 55 = 0$$

$$y^2 + 11y + 5y + 55 = 0$$

$$y(y + 11) + 5(y + 11) = 0$$

$$(y + 11)(y + 5) = 0$$

$$y = -11, -5$$

$$\text{i.e., } x > y$$

**S60. Ans.(e)**

**Sol.**

$$\text{I. } x^2 - 20x + 75 = 0$$

$$x^2 - 15x - 5x + 75 = 0$$

$$x(x - 15) - 5(x - 15) = 0$$

$$(x - 5)(x - 15) = 0$$

$$x = 5, 15$$

$$\text{II. } y^2 - 13y + 42 = 0$$

$$y^2 - 6y - 7y + 42 = 0$$

$$y(y - 6) - 7(y - 6) = 0$$

$$(y - 7)(y - 6) = 0$$

$$y = 7, 6$$

so, no relation can be established between  $x$  and  $y$

**S61. Ans.(d)**

**Sol.**

$$\text{I. } 8x^2 - 2x - 45 = 0$$

$$8x^2 - 20x + 18x - 45 = 0$$

$$4x(2x - 5) + 9(2x - 5) = 0$$

$$(2x - 5)(4x + 9) = 0$$

$$x = \frac{5}{2}, \frac{-9}{4}$$

$$\text{II. } y^2 - 10y + 21 = 0$$

$$y^2 - 7y - 3y + 21 = 0$$

$$y(y - 7) - 3(y - 7) = 0$$

$$(y - 7)(y - 3) = 0$$

$$y = 7, 3$$

$$\text{so, } x < y$$

**S62. Ans.(a)**

**Sol.**

$$\text{I. } x^2 + 8x + 15 = 0$$

$$x^2 + 5x + 3x + 15 = 0$$

$$x(x + 5) + 3(x + 5) = 0$$

$$(x + 3)(x + 5) = 0$$

$$x = -5, -3$$

$$\text{II. } y^2 + 13y + 40 = 0$$

$$y^2 + 8y + 5y + 40 = 0$$

$$y(y + 8) + 5(y + 8) = 0$$

$$(y + 5)(y + 8) = 0$$

$$y = -5, -8$$

$$\text{so, } x \geq y$$

**S63. Ans.(c)**

**Sol.**

$$\text{I. } x^2 - 9x + 20 = 0$$

$$x^2 - 4x - 5x + 20 = 0$$

$$x(x - 4) - 5(x - 4) = 0$$

$$(x - 4)(x - 5) = 0$$

$$x = 4, 5$$

$$\text{II. } y^2 - 22y + 85 = 0$$

$$y^2 - 5y - 17y + 85 = 0$$

$$y(y - 5) - 17(y - 5) = 0$$

$$(y - 17)(y - 5) = 0$$

$$y = 17, 5$$

$$\text{so, } x \leq y$$

S64. Ans.(c)

Sol.

$$\text{I. } x^2 - 7x + 6 = 0$$

$$x^2 - 6x - x + 6 = 0$$

$$x(x-6) - 1(x-6) = 0$$

$$(x-1)(x-6) = 0$$

$$x = 6, 1$$

$$\text{II. } y^2 - 14y + 48 = 0$$

$$y^2 - 6y - 8y + 48 = 0$$

$$y(y-6) - 8(y-6) = 0$$

$$(y-6)(y-8) = 0$$

$$y = 6, 8$$

$$\text{so, } x \leq y$$

S65. Ans.(d)

Sol.

$$A + B = \frac{1}{12}$$

$$A + B + C = \frac{1}{15}$$

$$\Rightarrow C = \frac{1}{15} - \frac{1}{12} = \frac{4-5}{60} = \frac{-1}{60}$$

Pipe 'C' is an outlet pipe which can empty the tank in 60 minutes.

$$B + C = \frac{1}{30}$$

$$B = \frac{1}{30} + \frac{1}{60} = \frac{2+1}{60} = \frac{1}{20}$$

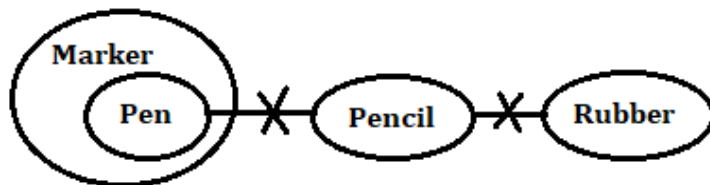
$$A + B = \frac{1}{12}$$

$$A = \frac{1}{12} - \frac{1}{20} = \frac{5-3}{60} = \frac{2}{60} = \frac{1}{30}$$

Pipe 'A' alone can fill the tank completely in 30 minutes

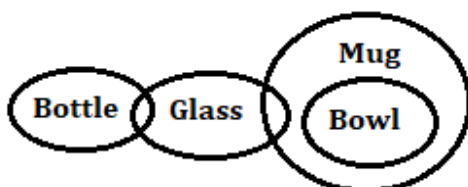
S66. Ans.(e)

Sol.



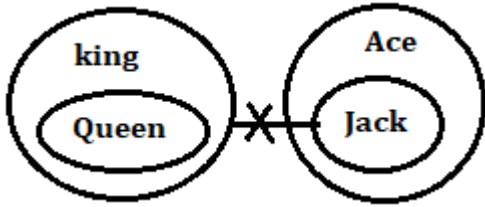
S67. Ans.(a)

Sol.



S68. Ans.(c)

Sol.



S69. Ans.(b)

**Sol.** From the statements, D was born in an odd year. There are two possible cases. The number of persons born before D is same as the number of persons born after A. The age of F is a prime number. Three persons were born between F and H.

| Year | Age | Persons |        |
|------|-----|---------|--------|
|      |     | Case 1  | Case 2 |
| 1960 | 61  | F/H     |        |
| 1971 | 50  | D       |        |
| 1976 | 45  |         | H      |
| 1985 | 36  |         | D      |
| 1992 | 29  | H/F     | A      |
| 1996 | 25  |         |        |
| 2004 | 17  | A       | F      |
| 2006 | 15  |         |        |

W was born just before G. Age difference between G and S is same as the age difference between H and D. Case 2 will eliminate here. S is not the youngest person among all.

So, the final arrangement is:

| Year | Age | Persons |
|------|-----|---------|
| 1960 | 61  | H       |
| 1971 | 50  | D       |
| 1976 | 45  | W       |
| 1985 | 36  | G       |
| 1992 | 29  | F       |
| 1996 | 25  | S       |
| 2004 | 17  | A       |
| 2006 | 15  | Q       |

S70. Ans.(c)

**Sol.** From the statements, D was born in an odd year. There are two possible cases. The number of persons born before D is same as the number of persons born after A. The age of F is a prime number. Three persons were born between F and H.

| Year | Age | Persons |        |
|------|-----|---------|--------|
|      |     | Case 1  | Case 2 |
| 1960 | 61  | F/H     |        |
| 1971 | 50  | D       |        |
| 1976 | 45  |         | H      |
| 1985 | 36  |         | D      |
| 1992 | 29  | H/F     | A      |
| 1996 | 25  |         |        |
| 2004 | 17  | A       | F      |
| 2006 | 15  |         |        |

W was born just before G. Age difference between G and S is same as the age difference between H and D. Case 2 will eliminate here. S is not the youngest person among all.

So, the final arrangement is:

| Year | Age | Persons |
|------|-----|---------|
| 1960 | 61  | H       |
| 1971 | 50  | D       |
| 1976 | 45  | W       |
| 1985 | 36  | G       |
| 1992 | 29  | F       |
| 1996 | 25  | S       |
| 2004 | 17  | A       |
| 2006 | 15  | Q       |

### S71. Ans.(a)

**Sol.** From the statements, D was born in an odd year. There are two possible cases. The number of persons born before D is same as the number of persons born after A. The age of F is a prime number. Three persons were born between F and H.

| Year | Age | Persons |        |
|------|-----|---------|--------|
|      |     | Case 1  | Case 2 |
| 1960 | 61  | F/H     |        |
| 1971 | 50  | D       |        |
| 1976 | 45  |         | H      |
| 1985 | 36  |         | D      |
| 1992 | 29  | H/F     | A      |
| 1996 | 25  |         |        |
| 2004 | 17  | A       | F      |
| 2006 | 15  |         |        |

W was born just before G. Age difference between G and S is same as the age difference between H and D. Case 2 will eliminate here. S is not the youngest person among all.

So, the final arrangement is:

| Year | Age | Persons |
|------|-----|---------|
| 1960 | 61  | H       |
| 1971 | 50  | D       |
| 1976 | 45  | W       |
| 1985 | 36  | G       |
| 1992 | 29  | F       |
| 1996 | 25  | S       |
| 2004 | 17  | A       |
| 2006 | 15  | Q       |



**S72. Ans.(d)**

**Sol.** From the statements, D was born in an odd year. There are two possible cases. The number of persons born before D is same as the number of persons born after A. The age of F is a prime number. Three persons were born between F and H.

| Year | Age | Persons |        |
|------|-----|---------|--------|
|      |     | Case 1  | Case 2 |
| 1960 | 61  | F/H     |        |
| 1971 | 50  | D       |        |
| 1976 | 45  |         | H      |
| 1985 | 36  |         | D      |
| 1992 | 29  | H/F     | A      |
| 1996 | 25  |         |        |
| 2004 | 17  | A       | F      |
| 2006 | 15  |         |        |

W was born just before G. Age difference between G and S is same as the age difference between H and D. Case 2 will eliminate here. S is not the youngest person among all.

So, the final arrangement is:

| Year | Age | Persons |
|------|-----|---------|
| 1960 | 61  | H       |
| 1971 | 50  | D       |
| 1976 | 45  | W       |
| 1985 | 36  | G       |
| 1992 | 29  | F       |
| 1996 | 25  | S       |
| 2004 | 17  | A       |
| 2006 | 15  | Q       |

**S73. Ans.(d)**

**Sol.** From the statements, D was born in an odd year. There are two possible cases. The number of persons born before D is same as the number of persons born after A. The age of F is a prime number. Three persons were born between F and H.

| Year | Age | Persons |        |
|------|-----|---------|--------|
|      |     | Case 1  | Case 2 |
| 1960 | 61  | F/H     |        |
| 1971 | 50  | D       |        |
| 1976 | 45  |         | H      |
| 1985 | 36  |         | D      |
| 1992 | 29  | H/F     | A      |
| 1996 | 25  |         |        |
| 2004 | 17  | A       | F      |
| 2006 | 15  |         |        |

W was born just before G. Age difference between G and S is same as the age difference between H and D. Case 2 will eliminate here. S is not the youngest person among all.

So, the final arrangement is:

| Year | Age | Persons |
|------|-----|---------|
| 1960 | 61  | H       |
| 1971 | 50  | D       |
| 1976 | 45  | W       |
| 1985 | 36  | G       |
| 1992 | 29  | F       |
| 1996 | 25  | S       |
| 2004 | 17  | A       |
| 2006 | 15  | Q       |

**S74. Ans.(a)**

**Sol.**

| Words          | Codes    |
|----------------|----------|
| Some           | ic       |
| IPS            | sv       |
| are            | ol       |
| IAS            | qw       |
| All            | ab       |
| SDM            | Rh       |
| Officers       | Xk       |
| Will/become/DM | dj/yu/ea |

**S75. Ans.(d)**

**Sol.**

| Words          | Codes    |
|----------------|----------|
| Some           | ic       |
| IPS            | sv       |
| are            | ol       |
| IAS            | qw       |
| All            | ab       |
| SDM            | Rh       |
| Officers       | Xk       |
| Will/become/DM | dj/yu/ea |

**S76. Ans.(c)**

**Sol.**

| Words          | Codes    |
|----------------|----------|
| Some           | ic       |
| IPS            | sv       |
| are            | ol       |
| IAS            | qw       |
| All            | ab       |
| SDM            | Rh       |
| Officers       | Xk       |
| Will/become/DM | dj/yu/ea |

**S77. Ans.(e)**

**Sol.**

| Words          | Codes    |
|----------------|----------|
| Some           | ic       |
| IPS            | sv       |
| are            | ol       |
| IAS            | qw       |
| All            | ab       |
| SDM            | Rh       |
| Officers       | Xk       |
| Will/become/DM | dj/yu/ea |

**S78. Ans.(b)**

**Sol.** More than six boxes are placed below V. Here, we have three possibilities. The number of boxes placed below S is same as the number of boxes placed above V. T is placed three places above S. Z is placed exactly between V and T.

| Boxes  |        |        |
|--------|--------|--------|
| Case 1 | Case 2 | Case 3 |
|        |        | V      |
|        | V      |        |
| V      |        |        |
| Z      | Z      | Z      |
| T      |        |        |
|        | T      |        |
|        |        | T      |
| S      |        |        |
|        | S      |        |
|        |        | S      |

Four boxes are placed between D and G which is placed below D. K is placed immediate above Q and both of them are placed above G. Case 1 will eliminate here. C is not placed adjacent to V and B. Case 2 will eliminate here. So, the final arrangement is:

| Boxes |
|-------|
| V     |
| B     |
| D     |
| Z     |
| K     |
| Q     |
| T     |
| G     |
| C     |
| S     |

**S79. Ans.(c)**

**Sol.** More than six boxes are placed below V. Here, we have three possibilities. The number of boxes placed below S is same as the number of boxes placed above V. T is placed three places above S. Z is placed exactly between V and T.

| Boxes  |        |        |
|--------|--------|--------|
| Case 1 | Case 2 | Case 3 |
|        |        | V      |
|        | V      |        |
| V      |        |        |
| Z      | Z      | Z      |
| T      |        |        |
|        | T      |        |
|        |        | T      |
| S      |        |        |
|        | S      |        |
|        |        | S      |

Four boxes are placed between D and G which is placed below D. K is placed immediate above Q and both of them are placed above G. Case 1 will eliminate here. C is not placed adjacent to V and B. Case 2 will eliminate here. So, the final arrangement is:

| Boxes |
|-------|
| V     |
| B     |
| D     |
| Z     |
| K     |
| Q     |
| T     |
| G     |
| C     |
| S     |

### S80. Ans.(d)

**Sol.** More than six boxes are placed below V. Here, we have three possibilities. The number of boxes placed below S is same as the number of boxes placed above V. T is placed three places above S. Z is placed exactly between V and T.

| Boxes  |        |        |
|--------|--------|--------|
| Case 1 | Case 2 | Case 3 |
|        |        | V      |
|        | V      |        |
| V      |        |        |
| Z      | Z      | Z      |
| T      |        |        |
|        | T      |        |
|        |        | T      |
| S      |        |        |
|        | S      |        |
|        |        | S      |

Four boxes are placed between D and G which is placed below D. K is placed immediate above Q and both of them are placed above G. Case 1 will eliminate here. C is not placed adjacent to V and B. Case 2 will eliminate here. So, the final arrangement is:

| Boxes |
|-------|
| V     |
| B     |
| D     |
| Z     |
| K     |
| Q     |
| T     |
| G     |
| C     |
| S     |

### S81. Ans.(c)

**Sol.** More than six boxes are placed below V. Here, we have three possibilities. The number of boxes placed below S is same as the number of boxes placed above V. T is placed three places above S. Z is placed exactly between V and T.

| Boxes  |        |        |
|--------|--------|--------|
| Case 1 | Case 2 | Case 3 |
|        |        | V      |
|        | V      |        |
| V      |        |        |
| Z      | Z      | Z      |
| T      |        |        |
|        | T      |        |
|        |        | T      |
| S      |        |        |
|        | S      |        |
|        |        | S      |

Four boxes are placed between D and G which is placed below D. K is placed immediate above Q and both of them are placed above G. Case 1 will eliminate here. C is not placed adjacent to V and B. Case 2 will eliminate here. So, the final arrangement is:

| Boxes |
|-------|
| V     |
| B     |
| D     |
| Z     |
| K     |
| Q     |
| T     |
| G     |
| C     |
| S     |

### S82. Ans.(e)

**Sol.** More than six boxes are placed below V. Here, we have three possibilities. The number of boxes placed below S is same as the number of boxes placed above V. T is placed three places above S. Z is placed exactly between V and T.

| Boxes  |        |        |
|--------|--------|--------|
| Case 1 | Case 2 | Case 3 |
|        |        | V      |
|        | V      |        |
| V      |        |        |
| Z      | Z      | Z      |
| T      |        |        |
|        | T      |        |
|        |        | T      |
| S      |        |        |
|        | S      |        |
|        |        | S      |

Four boxes are placed between D and G which is placed below D. K is placed immediate above Q and both of them are placed above G. Case 1 will eliminate here. C is not placed adjacent to V and B. Case 2 will eliminate here. So, the final arrangement is:

| Boxes |
|-------|
| V     |
| B     |
| D     |
| Z     |
| K     |
| Q     |
| T     |
| G     |
| C     |
| S     |

**S83. Ans.(c)**

**Sol.** 843 612 437 375 198

**S84. Ans.(b)**

**Sol.** 981 753 843 621 743

**S85. Ans.(a)**

**Sol.** 189 357 834 621 473

**S86. Ans.(d)**

**Sol.** 843-198=645

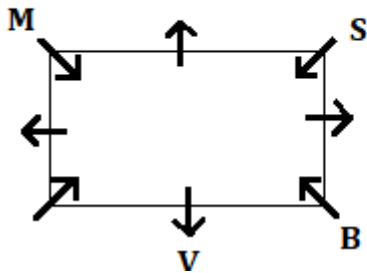
**S87. Ans.(d)**

**Sol.** Sum=6+1+2=9

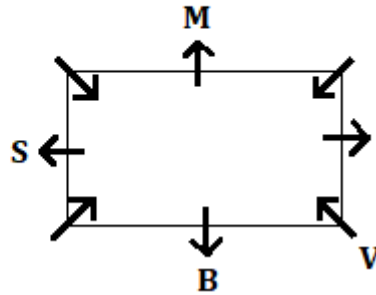
**S88. Ans.(d)**

**Sol.** M sits third to right of V. There are two possible cases. One person sits between M and S. B sits second to the left of S.

Case 1

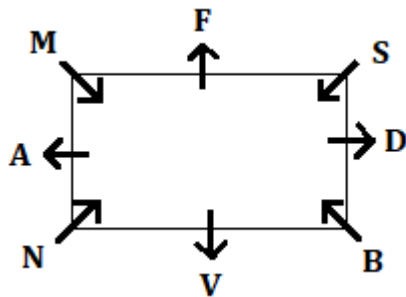


Case 2



D sits adjacent to S but not opposite to V. N sits diagonally opposite to the one who sits immediate right of F. A does not sit at any corner of the table. Case 2 will eliminate here.

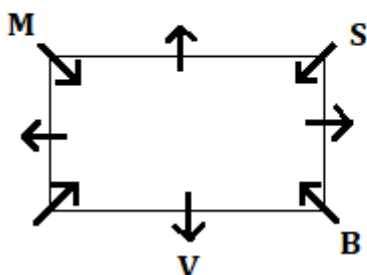
So, the final arrangement is:



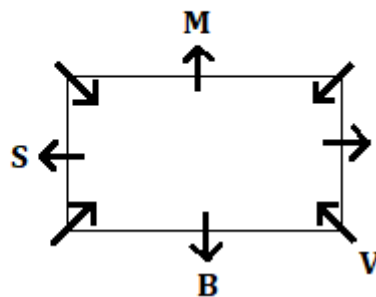
**S89. Ans.(c)**

**Sol.** M sits third to right of V. There are two possible cases. One person sits between M and S. B sits second to the left of S.

Case 1

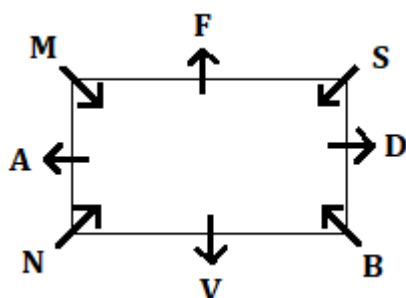


Case 2



D sits adjacent to S but not opposite to V. N sits diagonally opposite to the one who sits immediate right of F. A does not sit at any corner of the table. Case 2 will eliminate here.

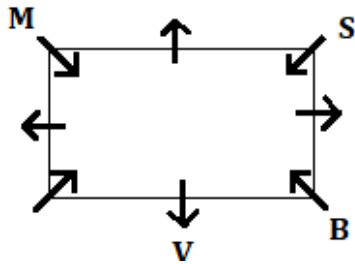
So, the final arrangement is:



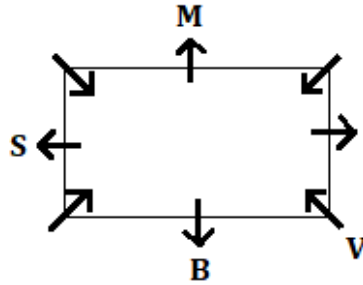
**S90. Ans.(b)**

**Sol.** M sits third to right of V. There are two possible cases. One person sits between M and S. B sits second to the left of S.

**Case 1**

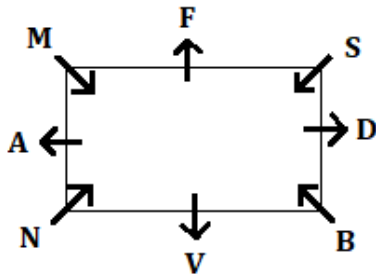


**Case 2**



D sits adjacent to S but not opposite to V. N sits diagonally opposite to the one who sits immediate right of F. A does not sit at any corner of the table. Case 2 will eliminate here.

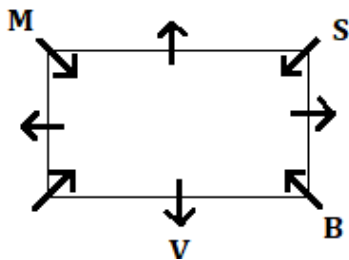
So, the final arrangement is:



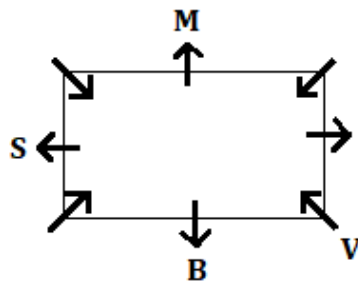
**S91. Ans.(a)**

**Sol.** M sits third to right of V. There are two possible cases. One person sits between M and S. B sits second to the left of S.

**Case 1**

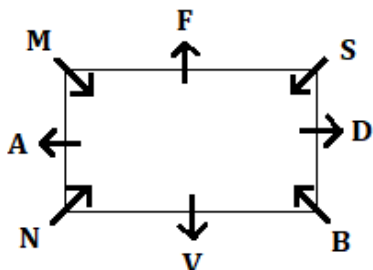


**Case 2**



D sits adjacent to S but not opposite to V. N sits diagonally opposite to the one who sits immediate right of F. A does not sit at any corner of the table. Case 2 will eliminate here.

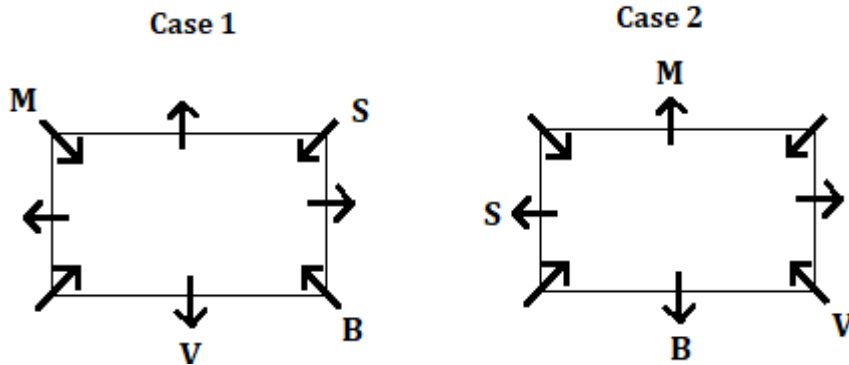
So, the final arrangement is:





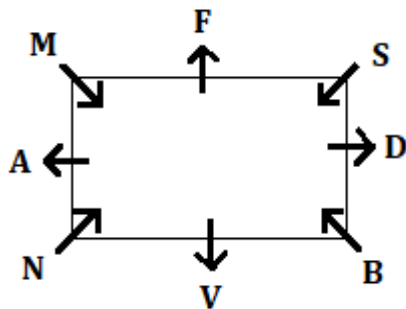
**S92. Ans.(b)**

**Sol.** M sits third to right of V. There are two possible cases. One person sits between M and S. B sits second to the left of S.



D sits adjacent to S but not opposite to V. N sits diagonally opposite to the one who sits immediate right of F. A does not sit at any corner of the table. Case 2 will eliminate here.

So, the final arrangement is:



**S93. Ans.(a)**

**Sol.**

C O V E R A G E

**S94. Ans.(c)**

**Sol.**  $P > S > T > W > R > Q$

**S95. Ans.(c)**

**Sol.**  $P > S > T > W > R > Q$

**S96. Ans.(c)**

**Sol.** Only three persons are Senior to C who likes Vivo. F is neither PO nor MG. The one who likes OnePlus Mobile is just senior to F. There are two possibilities. E is neither MG nor DGM. E is junior to D. E is senior to the one who likes Realme Mobile.

|       | Case-1  |         | Case-2  |         |
|-------|---------|---------|---------|---------|
| Post  | Persons | Mobiles | Persons | Mobiles |
| GM    |         |         |         | OnePlus |
| DGM   |         |         | F       |         |
| MG    |         |         |         |         |
| AM    | C       | Vivo    | C       | Vivo    |
| PO    | E       | OnePlus | E       |         |
| Clerk | F       | Realme  |         | Realme  |

The one who likes Xiaomi Mobile is not MG. The one who likes Samsung Mobile is senior to the one who likes Xiaomi Mobile and junior to D. From these conditions case-1 will be eliminated. E is junior to the one who likes Apple Mobile. B and F does not like Apple Mobile. A is senior to B. The final arrangement is-

| Post  | Person | Mobiles |
|-------|--------|---------|
| GM    | D      | OnePlus |
| DGM   | F      | Samsung |
| MG    | A      | Apple   |
| AM    | C      | Vivo    |
| PO    | E      | Xiaomi  |
| Clerk | B      | Realme  |

### S97. Ans.(a)

**Sol.** Only three persons are Senior to C who likes Vivo. F is neither PO nor MG. The one who likes OnePlus Mobile is just senior to F. There are two possibilities. E is neither MG nor DGM. E is junior to D. E is senior to the one who likes Realme Mobile.

|       | Case-1  |         | Case-2  |         |
|-------|---------|---------|---------|---------|
| Post  | Persons | Mobiles | Persons | Mobiles |
| GM    |         |         |         | OnePlus |
| DGM   |         |         | F       |         |
| MG    |         |         |         |         |
| AM    | C       | Vivo    | C       | Vivo    |
| PO    | E       | OnePlus | E       |         |
| Clerk | F       | Realme  |         | Realme  |

The one who likes Xiaomi Mobile is not MG. The one who likes Samsung Mobile is senior to the one who likes Xiaomi Mobile and junior to D. From these conditions case-1 will be eliminated. E is junior to the one who likes Apple Mobile. B and F does not like Apple Mobile. A is senior to B. The final arrangement is-

| Post  | Person | Mobiles |
|-------|--------|---------|
| GM    | D      | OnePlus |
| DGM   | F      | Samsung |
| MG    | A      | Apple   |
| AM    | C      | Vivo    |
| PO    | E      | Xiaomi  |
| Clerk | B      | Realme  |

### S98. Ans.(b)

**Sol.** Only three persons are Senior to C who likes Vivo. F is neither PO nor MG. The one who likes OnePlus Mobile is just senior to F. There are two possibilities. E is neither MG nor DGM. E is junior to D. E is senior to the one who likes Realme Mobile.

|       | Case-1  |         | Case-2  |         |
|-------|---------|---------|---------|---------|
| Post  | Persons | Mobiles | Persons | Mobiles |
| GM    |         |         |         | OnePlus |
| DGM   |         |         | F       |         |
| MG    |         |         |         |         |
| AM    | C       | Vivo    | C       | Vivo    |
| PO    | E       | OnePlus | E       |         |
| Clerk | F       | Realme  |         | Realme  |

The one who likes Xiaomi Mobile is not MG. The one who likes Samsung Mobile is senior to the one who likes Xiaomi Mobile and junior to D. From these conditions case-1 will be eliminated. E is junior to the one who likes Apple Mobile. B and F does not like Apple Mobile. A is senior to B. The final arrangement is-

| Post  | Person | Mobiles |
|-------|--------|---------|
| GM    | D      | OnePlus |
| DGM   | F      | Samsung |
| MG    | A      | Apple   |
| AM    | C      | Vivo    |
| PO    | E      | Xiaomi  |
| Clerk | B      | Realme  |

### S99. Ans.(d)

**Sol.** Only three persons are Senior to C who likes Vivo. F is neither PO nor MG. The one who likes OnePlus Mobile is just senior to F. There are two possibilities. E is neither MG nor DGM. E is junior to D. E is senior to the one who likes Realme Mobile.

|       | Case-1  |         | Case-2  |         |
|-------|---------|---------|---------|---------|
| Post  | Persons | Mobiles | Persons | Mobiles |
| GM    |         |         |         | OnePlus |
| DGM   |         |         | F       |         |
| MG    |         |         |         |         |
| AM    | C       | Vivo    | C       | Vivo    |
| PO    | E       | OnePlus | E       |         |
| Clerk | F       | Realme  |         | Realme  |

The one who likes Xiaomi Mobile is not MG. The one who likes Samsung Mobile is senior to the one who likes Xiaomi Mobile and junior to D. From these conditions case-1 will be eliminated. E is junior to the one who likes Apple Mobile. B and F does not like Apple Mobile. A is senior to B. The final arrangement is-

| Post  | Person | Mobiles |
|-------|--------|---------|
| GM    | D      | OnePlus |
| DGM   | F      | Samsung |
| MG    | A      | Apple   |
| AM    | C      | Vivo    |
| PO    | E      | Xiaomi  |
| Clerk | B      | Realme  |

### S100. Ans.(b)

**Sol.** Only three persons are Senior to C who likes Vivo. F is neither PO nor MG. The one who likes OnePlus Mobile is just senior to F. There are two possibilities. E is neither MG nor DGM. E is junior to D. E is senior to the one who likes Realme Mobile.

|       | Case-1  |         | Case-2  |         |
|-------|---------|---------|---------|---------|
| Post  | Persons | Mobiles | Persons | Mobiles |
| GM    |         |         |         | OnePlus |
| DGM   |         |         | F       |         |
| MG    |         |         |         |         |
| AM    | C       | Vivo    | C       | Vivo    |
| PO    | E       | OnePlus | E       |         |
| Clerk | F       | Realme  |         | Realme  |

The one who likes Xiaomi Mobile is not MG. The one who likes Samsung Mobile is senior to the one who likes Xiaomi Mobile and junior to D. From these conditions case-1 will be eliminated. E is junior to the one who likes Apple Mobile. B and F does not like Apple Mobile. A is senior to B. The final arrangement is-

| Post  | Person | Mobiles |
|-------|--------|---------|
| GM    | D      | OnePlus |
| DGM   | F      | Samsung |
| MG    | A      | Apple   |
| AM    | C      | Vivo    |
| PO    | E      | Xiaomi  |
| Clerk | B      | Realme  |

# Test Prime

**ALL EXAMS,  
ONE SUBSCRIPTION**



**70,000+**  
Mock Tests



**Personalised  
Report Card**



**Unlimited  
Re-Attempt**



**600+**  
Exam Covered



**Previous Year  
Papers**



**500%**  
Refund



**ATTEMPT FREE MOCK NOW**