

IBPS Clerk Pre 2022 (3rd September) Shift-Wise Previous Year Papers Mock 02

Directions (1-8): Read the passage given below and answer the questions that follow. Some words have been highlighted to help you locate while answering the questions.

Recently a powerful earthquake of magnitude 5.9 on the Richter scale _____ a remote town in Afghanistan, killing over a thousand and injuring many more. According to the U.S. Federal Emergency Management Agency, a 5.9 on the Richter scale is roughly equivalent to 37 times the energy released by the atomic bomb dropped on Hiroshima. Experts are still trying to figure out the best early warning system to mitigate the damage caused by earthquakes.

According to the theory of plate tectonics, the Earth's crust and upper mantle are made of large **rigid** plates that can move relative to one another. Slip faults near the plate boundaries can result in earthquakes. The point inside the Earth where the earthquake eruption starts is called the focus or hypocenter. The point directly above it on the surface of the Earth is the epicenter. Any elastic material when subjected to stress, stretches in a proportional way, until the elastic limit is reached. When the elastic limit is crossed, it breaks. Similarly, the Earth also has an elastic limit and when the stress is higher than this limit, it breaks and energy releases causes jiggling of earth surface. Since the material is elastic, the energy is released in the form of elastic waves. These **propagate** to a distance determined by the extent of the impact. These are known as seismic waves.

Earthquakes are measured by seismographic networks, which are made of seismic stations, each of which measures the shaking of the ground beneath it. In India, the National Seismological Network does this work. It has a history of about 120 years and its sensors can now detect an earthquake within five to ten minutes. Richter magnitude is a measure of the magnitude of an earthquake and was first defined by Charles F. Richter of the California Institute of Technology, U.S., in 1935. The magnitude of an earthquake is the logarithm of the amplitude of the waves measured by the seismographs. Richter scale magnitudes are expressed as a whole number and a decimal part, for example 6.3 or 5.2. Since it is a logarithmic scale, an increase of the whole number by one unit signifies a tenfold increase in the amplitude of the wave and a 31-times increase of the energy released. Based on seismicity, intensity of earthquakes experienced, and geological and tectonic qualities of a region, countries are divided into several zones. In India, for example, there are four zones, designated Zone II-Zone V. Among these, Zone V is the most hazardous and Zone II the least hazardous.

Q1. How does earthquake happen?

- (a) Tectonic plates sometimes get damaged or fractured due to excessive barometric pressure, which leads to earthquake
- (b) Magma that resides beneath the earth's surface sometimes outbursts through tectonic plates causing an earthquake.
- (c) The tectonic plates slide against each other, which can cause slip faults near the plate boundaries causing an earthquake.
- (d) Due to the earth's billion years of age, the tectonic plates' surfaces are getting collapsed, thus causing earthquake.
- (e) None of these

Q2. What is the seismic wave?

- (a) Seismic waves are the trembling of the ground in response to the energy released after passing the elasticity's threshold
- (b) Seismic waves are the jolts that happen exactly before an earthquake, somewhat similar to a warning signal
- (c) Seismic waves are the lower infrared waves that continuously flow through the earth's crust
- (d) seismic waves are the waves that are created due to the vibration between electric and magnetic fields
- (e) None of these

Q3. What is the seismographic network?

- (a) Seismographic network is the connection between earth's surface to satellite to record the atmospheric pressure
- (b) Seismographic network is the collection of seismic stations, used to record the motion of ground during an earthquake
- (c) Seismographic network is the collection of equipment and antennas mounted on the surface of earth to provide better connectivity
- (d) Seismographic network is the device used to measure pressure on earth's crust at the sea level
- (e) None of these

Q4. Which of the following sentences is FALSE with respect to the data given in the passage?

- (a) The intensity of the recent Afghanistan earthquake is somewhat equivalent to the energy released by the atomic bomb dropped on Hiroshima.
- (b) Charles F. Richter gave the definition of the measuring standard for earthquake, i.e., Richter Magnitude
- (c) National Seismological Network is the authoritative body for measuring earthquake in India
- (d) The hypocenter is the point within the earth where an earthquake rupture starts
- (e) The epicenter is the point on the Earth's surface directly above a hypocenter or focus

Q5. Which of the following is not among the criteria considered in dividing regions into zone?

- (a) seismicity
- (b) intensity of earthquake
- (c) human density
- (d) geological and tectonic quality of a region
- (e) None of these

Q6. Which of the following words can fit into the blank given in the passage?

- (a) targeted
- (b) struck
- (c) bombarded
- (d) flourished
- (e) thrown

Q7. Which of the following is the synonym of "propagated" highlighted in the passage?

- (a) circulated
- (b) vibrated

- (c) vanquished
- (d) divided
- (e) None of these

Q8. Which of the following is the opposite of “rigid” highlighted in the passage?

- (a) Ambit
- (b) Dormant
- (c) flexible
- (d) meticulous
- (e) None of these

Directions (9-13): In each question one word is given and correspondence to that, three sentences are given each containing that word. Choose the option depicts the sentence(s) that have/ has the correct usage of the word. If all the sentences have the correct usage, choose “all are correct” as your answer choice.

Q9. Diversity

- (i) It is important to understand disease through the context of human **diversity**, which is about how different people respond to disease.
 - (ii) The government has **diversity** judges in the higher judiciary.
 - (iii) India is marked by unity in **diversity**.
- (a) Both (ii) & (iii)
 - (b) Both (i) & (iii)
 - (c) Only (iii)
 - (d) Both (ii) & (i)
 - (e) All are correct

Q10. Expedite

- (i) The government is working to **expedite** payment of sugarcane farmers.
 - (ii) The State governments have been asked to **expedite** the completion of medical colleges.
 - (iii) The **expedite** need today is for a peace plan.
- (a) Both (ii) & (iii)
 - (b) Both (i) & (iii)
 - (c) Only (iii)
 - (d) Both (i) & (ii)
 - (e) All are correct

Q11. Curtail

- (i) Outcomes in judicial **curtail** are almost always shaped by the cases which come before the courts
 - (ii) CEO of the airline company announced that they will **curtail** the airline operations.
 - (iii) Work from home is the best way to **curtail** office expenses such as electricity and printing etc.
- (a) Both (ii) & (iii)
 - (b) Both (i) & (iii)
 - (c) Only (iii)
 - (d) Both (ii) & (i)

(e) All are correct

Q12. Repeal

- (i) It is **repeal** to ask a developing country not to buy discounted Russian oil.
(ii) The report by the WHO is worrisome and **repeals** the fact that the COVID-19 pandemic is far from over
(iii) The US has called on China to **repeal** a draconian national security law imposed on Hong Kong
- (a) Both (ii) & (iii)
(b) Both (i) & (iii)
(c) Only (iii)
(d) Both (ii) & (i)
(e) All are correct

Q13. Succor

- (i) The government has enhanced the financial aid to provide **succor** to orphaned children.
(ii) The approach of **succor** with groundwater independently has severe limitations.
(iii) The first chapter of UNEP report **succor** studies about noise levels in several cities.
- (a) Both (ii) & (iii)
(b) Only (i)
(c) Only (iii)
(d) Both (ii) & (i)
(e) All are correct

Directions (14-18): Each question is divided into four parts in which one part contains the error. Choose the incorrect part as your answer. If the sentence is correct as it is, choose "No Error" as your answer choice.

Q14. The government said that (A)/ we should stay at (B)/ home if the number of (C)/ Covid -19 cases will be increasing (D)./ No Error (E)

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

Q15. Except for the doctor, (A)/ there is none who can (B)/ give you a good piece of advice (C)/ for your health issue (D)/ No Error (E).

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

Q16. Excessive losses to banks affect (A)/ every person in the country because (B)/ the amounts deposited in banks (C)/ belongs to the citizens of the country (D)/ No Error (E)

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

Q17. The island-nation has (A)/gone through situations, (B)/ may been not as severe, (C)/ in earlier times as well (D)/ No Error (E)

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

Q18. The collateral damage of (A)/ the war between Ukraine (B)/and Russia is being bear (C)/ by the rest of the world (D)/ No Error (E).

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

Directions (19-23): In the following questions six sentences are given. You must rearrange these sentences to make a contextually meaningful paragraph. Later, answer the follow-up questions.

- (A) But the theory if confirmed, would explain the mystery of invisible constellation of particles mass.
- (B) Ten years ago, scientists discover the Higgs boson, which helps explain why elementary particles have mass.
- (C) Such a discovery could be the next big breakthrough of the last century after Einstein's first formulation of quantum physics
- (D) Physicist Peter Higgs predicted the Higgs boson as the mechanism responsible for giving elementary particles mass.
- (E) The same model also gives the concept of Higgs particle, which could possibly negate the theory
- (F) This theory suggests particle masses are a consequence of elementary particles interacting with a field, called Higgs field

Q19. Which is the SECOND sentence after rearrangement?

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

Q20. Which is the FOURTH sentence after rearrangement?

- (a) A
- (b) B

- (c) C
- (d) D
- (e) E

Q21. Which is the **FIFTH** sentence after rearrangement?

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

Q22. Which is the **FIRST** sentence after rearrangement?

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

Q23. Which is the **SIXTH** sentence after rearrangement?

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

Directions (24-28): In each sentence four words are given in bold. In which one word is either misspelt or grammatically inappropriate, choose it as your answer. If all the words are correct choose option (e), i.e., No Error.

Q24. India has been **registering (A)** instances of anomalous weather with **alarming (B)** frequency with an **eratic (C)** monsoon and coastal **erosion (D)**.

- (a) registering
- (b) alarming
- (c) eratic
- (d) erosion
- (e) All are correct

Q25. **Awe (A)** is the **sensasion (B)** of being **confronted (C)** by something so vast that it forces us to **reconsider (D)** our understanding of the world.

- (a) Awe
- (b) sensasion
- (c) confronted
- (d) reconsider
- (e) All are correct

Q26. According to **resent (A)** reports, Infosys's **profit (B)** has risen 1.5 times in the last 5 years, but **equity (C) capital (D)** has grown only about 1.1 times

- (a) resent
- (b) profit
- (c) equity
- (d) capital
- (e) All are correct

Q27. A growing number of **organisations (A)** have sprung up across the world **encouraging (B)** people to step **outdoors (C)** as a way to **improve (D)** mental health.

- (a) organisations
- (b) encouraging
- (c) outdoors
- (d) improve
- (e) All are correct

Q28. As capital **allocators (A)**, it is important for companies to **preserve (B)** and grow their capital during **periods (C)** of macroeconomic **uncertainty (D)**.

- (a) allocators
- (b) preserve
- (c) periods
- (d) uncertainty
- (e) All are correct

Directions (29-30): Given below the sentences each of which has been divided into four parts Each of the questions is then followed by the five options which give the sequence of the rearranged parts. You must choose the option which gives the correct sequence of the parts. If the sentence is already arranged in the correct sequence or the correct sequence doesn't match with any of the given sequence, mark option (e) i.e. " No arrangement required " as your answer.

Q29. the cosmos in infrared frequencies, (A) / the JWST provides astronomers with (B) / the most powerful tool yet to scan (C) / picking up the most distant objects (D).

- (a) ADBC
- (b) CBAD
- (c) BCAD
- (d) DABD
- (e) No rearrangement required

Q30. environmental movement has begun (A) / to take a more confrontational approach (B) / these days, America's mainstream (C) / in its protests and demonstrations (D).

- (a) CABD
- (b) DACB
- (c) BACD
- (d) ACBD
- (e) No rearrangement required

Q31. Train A and train B running at a speed of 36 km/hr & s km/hr respectively in opposite direction. If sum of length of train A & B is 600 meters and they cross each other in 20 seconds, then find 's'?

- (a) 72
- (b) 54
- (c) 48
- (d) 108
- (e) 81

Q32. Mohit invests Rs. P in a business. After four months Bholu joined him with Rs. 2P and Mohit increased his initial investment by 100%. If at the end of the year total profit is Rs. 13950, then find the profit share of Mohit?

- (a) 7250 Rs.
- (b) 7750 Rs.
- (c) 8750 Rs.
- (d) 6750 Rs.
- (e) 7050 Rs.

Q33. A man invested 50% more amount in scheme B than in scheme A and both schemes offer compound interest annually. If scheme A & B offers interest rate of 20% & 10% respectively and man gets a total interest of Rs. 1208 after two years from both the schemes, then find total amount invested by man in both schemes?

- (a) 6000 Rs.
- (b) 4800 Rs.
- (c) 5000 Rs.
- (d) 4500 Rs.
- (e) 4000 Rs.

Q34. The sum of the length of a rectangle and the side of a square is 36 meters. If the perimeter of the rectangle is 42 meters and the breadth of the rectangle is 9 meters, then find the measurement of the side of the square (in meters).

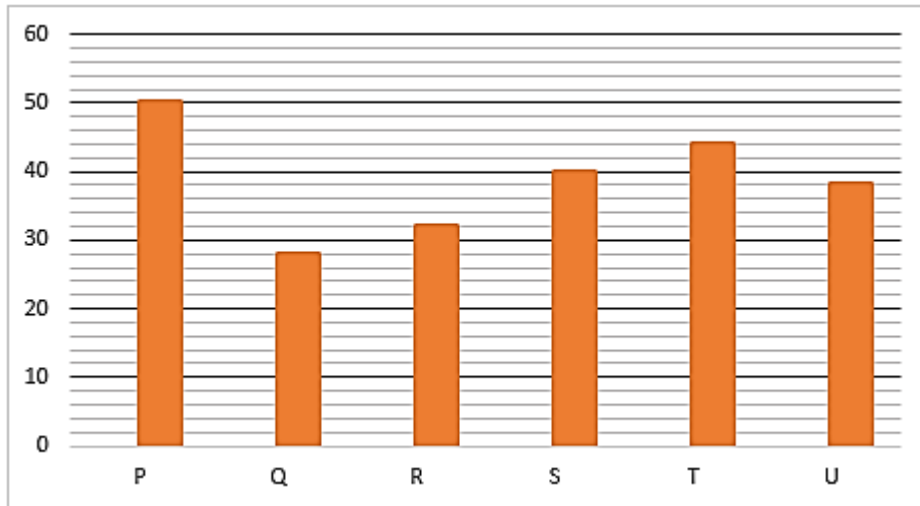
- (a) 24
- (b) 18
- (c) 27
- (d) 30
- (e) 15

Q35. The ratio of time taken by pipe P, Q and R to fill a tank alone is 4: 6 : 3 respectively. If all three pipes open together, then the tank completely filled in 8 hours. Find in how many hours P alone fill the three - fourth of the same tank?

- (a) 12
- (b) 30
- (c) 15
- (d) 24

(e) 18

Directions (36-40): The bar graph given below shows the total number of posts (Photos + Reels) shared by six (P, Q, R, S, T and U) people in June 2021 on Instagram. Read the data carefully and answer the questions.



Q36. The total post shared by R is what percent less than the total post shared by S?

- (a) 20%
- (b) 25%
- (c) 15%
- (d) 10%
- (e) 30%

Q37. In July 2021 total posts shared by Q & U is 12 and 15 more than previous month respectively, then find the total number of the post shared by Q & U in July 2021?

- (a) 95
- (b) 91
- (c) 93
- (d) 97
- (e) 99

Q38. Find the average number of posts shared by P, R and U?

- (a) 42
- (b) 48
- (c) 40
- (d) 36
- (e) 44

Q39. Total photos shared by T is four more than total reels shared by him, then find total reels shared by T?

- (a) 24
- (b) 20
- (c) 28

- (d) 22
(e) 30

Q40. If the ratio of total photos to total reels shared by Q is 5: 9, then find total photos shared by Q?

- (a) 10
(b) 18
(c) 12
(d) 14
(e) 16

Directions (41-45): Find the wrong number in the following number series.

Q41. 8, 12, 24, 60, 180, 640, 2520

- (a) 60
(b) 180
(c) 2520
(d) 640
(e) 8

Q42. -1, 1, 2, 6, 14, 30, 62

- (a) 1
(b) 62
(c) -1
(d) 14
(e) 30

Q43. 3, 4, 12, 41, 103, 228, 444

- (a) 228
(b) 3
(c) 41
(d) 444
(e) 103

Q44. 5, 3, 4, 7, 17, 45, 138

- (a) 3
(b) 7
(c) 17
(d) 45
(e) 138

Q45. 17, 25, 38, 53, 79, 107, 140

- (a) 79
(b) 140
(c) 25

- (d) 53
(e) 107

Directions (46-60): What will come in place of question mark (?) in the following questions.

Q46. $\sqrt{2500} + 15\% \text{ of } 14 = ?$

- (a) 40.9
(b) 45.1
(c) 52.1
(d) 58.9
(e) 64.1

Q47. $\frac{36+3 \times ?}{23} + 2^8 \div 16^2 = 13 \times 4$

- (a) 290
(b) 270
(c) 379
(d) 350
(e) 152

Q48. $\sqrt[3]{8} \times (3)^2 - \frac{?}{11} = \sqrt{81}$

- (a) 65
(b) 76
(c) 99
(d) 83
(e) 101

Q49. $(13)^2 - (16)^2 + (7)^2 = ?$

- (a) 57
(b) 34
(c) -27
(d) -38
(e) -49

Q50. $25\% \text{ of } 640 + 45\% \text{ of } 360 = ?$

- (a) 358
- (b) 378
- (c) 322
- (d) 302
- (e) 288

Q51. $\frac{640}{?} = ((15)^3 - 225 \times 12) \div 33.75$

- (a) 18
- (b) 40
- (c) 45
- (d) 32
- (e) 26

Q52. $?^2 + 224 - 96 = 85\% \text{ of } 280 + 34$

- (a) 18
- (b) 12
- (c) 16
- (d) 14
- (e) 8

Q53. $\sqrt{1521} + (21)^2 - 18 \times 5 = 5 \times ?$

- (a) 80
- (b) 78
- (c) 64
- (d) 70
- (e) 96

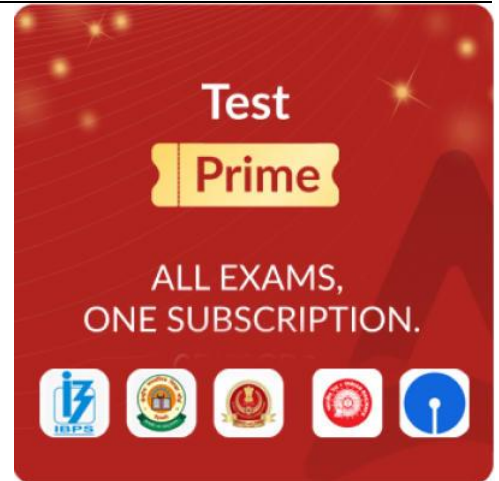
Q54. $48\% \text{ of } 800 + 125\% \text{ of } 1200 - 120 = (?)^2$

- (a) 42
- (b) 58
- (c) 36
- (d) 40
- (e) 50

Q55. $? \% \text{ of } 700 + 18 = 751 + 332 + 83$


- (a) 172
- (b) 164
- (c) 128
- (d) 142
- (e) 198

Q56. $324 \div 12 + 29 \times 3 - 48 + 39 = ?$



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- (a) 136
- (b) 219
- (c) 91
- (d) 110
- (e) 105

Q57. $44\% \text{ of } 250 + 30\% \text{ of } 270 + 13^2 = ?$

- (a) 260
- (b) 360
- (c) 355
- (d) 336
- (e) 349

Q58. $\frac{510}{?} = \sqrt{324} + \sqrt{256}$

- (a) 20
- (b) 5
- (c) 10
- (d) 15
- (e) 25

Q59. $\frac{209}{399} \times 21^2 - (11)^2 = ?$

- (a) 110
- (b) 320
- (c) 100
- (d) 120
- (e) 80

Q60. $\sqrt[3]{729} + \sqrt{784} + \sqrt[4]{256} = ? + \sqrt[3]{343}$

- (a) 34
- (b) 36
- (c) 38
- (d) 42
- (e) 44

Q61. The production of rice is decreased by 10% in the first year and then increased by 20% in the second year. Find the production of the rice at the end of the second year, if two years ago it was 15,000 kg?

- (a) 16180
- (b) 16200
- (c) 16320
- (d) 16360
- (e) 16480

Q62. Ratio of cost price to marked price of a table is 2 : 3. The shopkeeper allows successive discounts of $11\frac{1}{9}\%$ and 10% on table. If the difference between profit earned and discount given is Rs. 200, then find the marked price of the table?

- (a) Rs. 2100
- (b) Rs. 3000
- (c) Rs. 2400
- (d) Rs. 3600
- (e) Rs. 3300

Q63. The downstream speed of a boat is 5 km/hr more than its upstream speed and the ratio of the speed of the boat in still water to the speed of the stream is 19: 5. Find the total time taken by boat to travel 42 km downstream and 31.5 km upstream?

- (a) 7 $\frac{1}{2}$ hr
- (b) 8 hr
- (c) 9 hr
- (d) 9 $\frac{1}{2}$ hr
- (e) 10 hr

Q64. A container contains a mixture of milk and water in which water is 40% less than milk. If 16 liter of the mixture is taken out and replaced with water, then the quantity of milk and water in final mixture becomes equal. Find the initial quantity of mixture in the container?

- (a) 80 L
- (b) 60 L
- (c) 70 L
- (d) 48 L
- (e) 96 L

Q65. Present age of Q is $\frac{5}{8}$ th of P and the average present age of Q & R is 35 years. If five years ago, the sum of ages of P and Q is 55 years, then find the difference between the present age of P and R?

- (a) 12 years
- (b) 5 years
- (c) 9 years
- (d) 8 years
- (e) 4 years

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

Eight persons sit around a rectangular table. Four of them sit at the corner and face towards the centre of the table. Four of them sit at the middle of the side and face outside the table. Each of them likes different numbers.

B sits at one of the corners of the table likes I1. Only two persons sit between B and the one who like I6. D sits second to the left of the one who likes I6. Q faces R who likes I4. P sits third to the right of R. The one who likes I5 sits immediate left of C and immediate right of D. S is not an immediate neighbour of B.

A sits second to the right of the one who likes I7. The one who likes I8 sits immediate left of P. A does not like I3. One of them likes I2.

Q66. How many persons sit between Q and P when counted from right of P?

- (a) Two
- (b) One
- (c) Four
- (d) Three
- (e) More than four

Q67. Who among the following persons likes I6?

- (a) A
- (b) B
- (c) C
- (d) Q
- (e) None of these

Q68. Four of the following five are alike in a certain way and hence form a group which of the following does not belong to the group?

- (a) R-I6
- (b) P-I7
- (c) A-I8
- (d) D-I1
- (e) Q-I2

Q69. Who among the following persons sits second to the right of D?

- (a) The one who likes I4
- (b) The one who likes I8
- (c) P
- (d) C
- (e) None of these

Q70. Which of the following statement(s) is/are not true?

I.A sits at the middle of the table

II.P likes I7

III.C sits immediate left of Q

- (a) Both I and II
- (b) Only III
- (c) Only II
- (d) Both II and III
- (e) Only I

Directions (71-75): The following questions are based on the five three digits numbers given below:

185 654 467 761 356

Q71. If first and third digits of each number are interchanged, then which of the following number is lowest?

- (a) 185
- (b) 654
- (c) 467
- (d) 761
- (e) 356

Q72. If 1 is added to second digit of each number, then which of the following number is second lowest?

- (a) 185
- (b) 654
- (c) 467
- (d) 761
- (e) 356

Q73. If the position of first and second digits of each number is interchanged then how many numbers thus formed will be completely divisible by 2?

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

Q74. What will be result if second digit of lowest number is divided by first digit of third highest number?

- (a) 4
- (b) 5
- (c) 7
- (d) 2
- (e) 1

Q75. If in each number, all the digit are added then which of the following will be the highest resultant?

- (a) 185
- (b) 654
- (c) 356
- (d) 467
- (e) 761

Directions (76-79): In each question below are given some statements followed by some 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

**conclusion definitely follows from the given statements, disregarding commonly known facts.
Give answer –**

Q76. Statements:

All laptops are Mobile.

Only a few Mobiles are Screen.

All Mobiles are Network.

Conclusions:

I. Some Networks are Laptop.

II. Some Networks being Screen is a possibility.

- (a) Only Conclusion I follows
- (b) Only Conclusion II follows
- (c) Either Conclusion I or II follows
- (d) Both Conclusion I and II follow
- (e) Neither Conclusion I nor II follows

Q77. Statements:

Only a few Masks are Covid.

Only a few Covid are Sanitizer.

Some Sanitizers are Vaccine.

Conclusions:

I. Some Vaccines are Covid.

II. Some Sanitizers are Masks.

- (a) Only Conclusion I follows
- (b) Only Conclusion II follows
- (c) Either Conclusion I or II follows
- (d) Both Conclusion I and II follow
- (e) Neither Conclusion I nor II follows

Q78. Statements:

All Coolers are Hot.

Only a few Hot is Cold.

Some Cold is Weather.

Conclusions:

I. At least some Cold is Cooler.

II. Some Weather can be Cooler.

- (a) Only Conclusion I follows
- (b) Only Conclusion II follows
- (c) Either Conclusion I or II follows
- (d) Both Conclusion I and II follow
- (e) Neither Conclusion I nor II follows

Q79. Statements:

All Google is Document

Some Documents are File.

Some Files are not Safe.

Conclusions:

- I.** At least Some Safe being Document is a possibility.
II. Some Safe can be Google.
- (a) Only Conclusion I follows
 - (b) Only Conclusion II follows
 - (c) Either Conclusion I or II follows
 - (d) Both Conclusion I and II follow
 - (e) Neither Conclusion I nor II follows

Directions (80-84): Study the following information carefully and answer the questions given below.

Nine persons have different designations i.e. Chairman, General Manager (GM), Deputy General Manager (DGM), Assistant General Manager (AGM), Manager, Assistant Manager, Section Officer (SO), Cashier and Clerk in a company. The order of seniority is the same as given above i.e. Chairman is the senior-most designation and Clerk is the junior-most designation.

There are two persons who have their designations between Q and U who is senior to the Manager. S who is immediately senior to U is junior to P. Q is not SO. Only three persons have designations between P and W. Only one person is junior to X. Only two persons have designations between X and R. T is senior to V.

Q80. Who among the following is the clerk of the company?

- (a) Q
- (b) T
- (c) V
- (d) R
- (e) None of these

Q81. Number of persons who are senior to S is same as number of persons who are junior to ____.

- (a) T
- (b) U
- (c) P
- (d) X
- (e) None of these

Q82. Four of the following five are alike in a certain way and hence form a group which of the following does not belong to the group?

- (a) Q-P
- (b) X-W
- (c) R-W
- (d) S-U
- (e) T-X

Q83. How many persons are senior to W?

- (a) Three

- (b) Two
- (c) Four
- (d) Five
- (e) More than five

Q84. Which of the following statement(s) is/are not true?

- I. Q is the senior-most person
 - II. U is AGM
 - III. Only two persons are junior to W
- (a) Only II
 - (b) Both II and III
 - (c) Only I
 - (d) Both I and II
 - (e) Only III

Directions (85-87): In these questions, relationships between different elements are shown in the statements. These statements are followed by two conclusions. Give answer

Q85.

Statements: $D > E \geq F \leq A$; $E \leq H > J$

Conclusions: I. $H \geq F$ II. $A \leq J$

- (a) If only conclusion I is true
- (b) If only conclusion II is true
- (c) If either conclusion I or conclusion II is true
- (d) If neither conclusion I nor conclusion II is true
- (e) If both conclusions I and II are true

Q86.

Statements: $D > F \geq M = N$; $D = S \leq Z$

Conclusions: I. $N \leq D$ II. $F < Z$

- (a) If only conclusion I is true
- (b) If only conclusion II is true
- (c) If either conclusion I or conclusion II is true
- (d) If neither conclusion I nor conclusion II is true
- (e) If both conclusions I and II are true

Q87.

Statements: $A < B \leq E < Z$; $A = F \leq H$

Conclusions: I. $H \leq Z$ II. $F > E$

- (a) If only conclusion I is true
- (b) If only conclusion II is true
- (c) If either conclusion I or conclusion II is true
- (d) If neither conclusion I nor conclusion II is true
- (e) If both conclusions I and II are true

Directions (88-89): Read the following information carefully and answer the following questions.

In a family of seven members. T is married to the mother of R. H is the son of T. H is married to K. E is the granddaughter of P. J is uncle of E and is married to R. R has no child.

Q88. Who is married to the father of R?

- (a) E
- (b) P
- (c) K
- (d) Cannot be determined
- (e) None of these

Q89. Who is the sister-in-law of J?

- (a) T
- (b) H
- (c) P
- (d) K
- (e) None of these

Q90. How many such pairs of letters are in the word "HORLICKS" which has as many letters between them (both forward and backward) as in the English alphabetical series?

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

Directions (91-95): Read the following information carefully and answer the following questions.

Eight persons- P, Q, R, S, T, U, V, and W are sitting in a straight row facing north but not necessarily in the same order.

U sits 2nd to the left of V. W does not sit adjacent to Q and V. T sits 3rd to the left of R. S sits at one of the extreme ends of the row. One person sits between S and Q. Three persons sit between Q and P. V sits adjacent to P but not at any extreme ends of the row.

Q91. Who sits 2nd to the right of R?

- (a) P
- (b) Q
- (c) S
- (d) V
- (e) None of these

Q92. Which pair represents the persons sitting adjacent to U?

- (a) R and S
- (b) U and S

- (c) Q and R
- (d) R and V
- (e) None of these

Q93. How many persons sit between W and U?

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

Q94. Which of the following statement(s) is/are correct?

- (a) W sits at the extreme right end of the row
- (b) S sits at the extreme left end of the row
- (c) T sits immediate right of Q
- (d) Both (a) and (b)
- (e) Both (b) and (c)

Q95. Four of the following five are alike in a certain way based on a group, which among the following does not belong to that group?

- (a) T and U
- (b) Q and R
- (c) S and Q
- (d) V and W
- (e) V and P

Directions (96-100): Read the following information carefully and answer the following questions.

Eight persons A, B, C, D, E, F, G, and H are living on an eight-floor building such that the bottommost floor is numbered as 1 and the topmost floor is numbered as 8 but not necessarily in the same order. At most two persons live above H. B lives on a floor just below A. Three persons live between B and C who does not live on the 1st floor. E lives above F. Only three persons live between H and G. One person lives between G and D who does not live on an odd number floor. Three persons live between D and A who lives on one of the floors above D.

Q96. Who lives on the 1st floor?

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

Q97. On which floor does E live?

- (a) 1st floor
- (b) 2nd floor

- (c) 3rd floor
- (d) 5th floor
- (e) None of these

Q98. How many persons lives between A and G?

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

Q99. Which of the following statement(s) is/are correct?

- (a) A lives on the 8th floor
- (b) B lives on the 6th floor
- (c) G lives on the 2nd floor
- (d) Both (a) and (b)
- (e) Both (a) and (c)

Q100. Four of the following five are alike in a certain way based on a group, which among the following does not belong to that group?

- (a) B
- (b) E
- (c) F
- (d) C
- (e) A

Solutions

S1. Ans.(c)

Sol. To answer the given question, refer to the first few sentences of the second paragraph, where it is mentioned, "According to the theory of plate tectonics, the Earth's crust and upper mantle are made of large rigid plates that can move relative to one another. Slip faults near the plate boundaries can result in earthquakes."

S2. Ans.(a)

Sol. On referring to the second paragraph of the passage, we can conclude that only option (a) is true. Refer "Similarly, the Earth also has an elastic limit and when the stress is higher than this limit, it breaks and energy releases causes jiggling of earth surface. Since the material is elastic, the energy is released in the form of elastic waves. These propagate to a distance determined by the extent of the impact. These are known as seismic waves"

S3. Ans.(b)

Sol. To validate the answer, refer to the third paragraph, "Earthquakes are measured by seismographic networks, which are made of seismic stations, each of which measures the shaking of the ground beneath it"

S4. Ans.(a)

Sol. Only option (a) is false

For option (a): Refer to the first paragraph, **“According to the U.S. Federal Emergency Management Agency, a 5.9 on the Richter scale is roughly equivalent to 37 times the energy released by the atomic bomb dropped on Hiroshima.”**

For option (b): Refer to the third paragraph, “Richter magnitude is a measure of the magnitude of an earthquake and was first defined by Charles F. Richter of the California Institute of Technology, U.S., in 1935”

For option (c): Refer to the third paragraph, “Earthquakes are measured by seismographic networks, which are made of seismic stations, each of which measures the shaking of the ground beneath it. In India, the National Seismological Network does this work”

For option (d) and (e): Refer to the second paragraph, “The point inside the Earth where the earthquake eruption starts is called the focus or hypocenter. The point directly above it on the surface of the Earth is the epicenter”

S5. Ans.(c)

Sol. To validate the answer, refer to the third paragraph of the passage, **“Based on seismicity, intensity of earthquakes experienced, and geological and tectonic qualities of a region, countries are divided into several zones. In India, for example, there are four zones, designated Zone II-Zone V. Among these, Zone V is the most hazardous and Zone II the least hazardous.”**

S6. Ans.(b)

Sol. The word best fitted for the given blank is “struck”

Targeted: select as an object of attention or attack.

Struck: occur suddenly and have harmful or damaging effects on.

Bombarded: direct a stream of high-speed particles at (a substance).

Flourished: row or develop in a healthy or vigorous way

Thrown: propel (something) with force through the air by a movement of the arm and hand

S7. Ans.(a)

Sol. “propagated” means spread and promote widely.

Circulated: pass from place to place or person to person.

Vibrated: move continuously and rapidly to and fro

Vanquished: defeat thoroughly.

Divided: separated into parts or pieces

S8. Ans.(c)

Sol. “Rigid” means unable to bend or be forced out of shape

Dormant: temporarily inactive or inoperative.

Ambit: the scope, extent, or bounds of something.

Flexible: capable of bending easily without breaking.

Meticulous: taking or showing extreme care about minute details

S9. Ans.(b)

Sol. 'Diversity' means 'the state of being diverse; variety'. Therefore, its usage is correct in statement (i) and in statement (iii).

S10. Ans.(d)

Sol. 'Expedite' means 'make (an action or process) happen sooner or be accomplished more quickly'. Therefore, its usage is correct in statement (i) and in statement (ii).

S11. Ans.(a)

Sol. 'Curtail' means 'reduce in extent or quantity; impose a restriction on'. Therefore, it has been used correctly in statement (ii) and in statement (iii).

S12. Ans.(c)

Sol. 'Repeal' means 'revoke or annul (a law or act of parliament)' and it has been used correctly only in statement (iii).

S13. Ans.(b)

Sol. 'Succor' means 'assistance and support in times of hardship and distress' hence its usage is correct only in statement (i).

S14. Ans.(d)

Sol. The error lies in part (D). The correct conditional clause shouldn't use "will be increasing" when referring to a hypothetical or conditional future event that depends on another condition, especially following "if". Instead, it should use either the simple present tense or the simple future tense, but without the "will" when combined with "if".

The more appropriate form would be:
"increases"

S15. Ans.(b)

Sol. The error lies in part (B). Here 'who' should be replaced with 'that'. After all/none/nothing/only/superlative degree, we use only 'that' as a relative pronoun.

S16. Ans.(d)

Sol. The error lies in part (D). Here 'belongs' which is a singular form of the verb should be in plural form i.e. 'belong' for noun 'amounts' which is also plural.

S17. Ans.(c)

Sol. The error lies in part (C). Here 'been' should be replaced with 'be' because 'may' is a modal verb therefore should be followed by base form of the verb i.e. 'be'.

S18. Ans.(c)

Sol. The error lies in part (C). Here 'bear' should be replaced by 'borne' because in the given sentence, verb is in present continuous passive voice and its correct structure should be: subject + is/are + BEING + the past participle.

S19. Ans.(d)

Sol. The given passage talks about the discovery of “Higgs Boson”, which was marked as a significant event in the field of physics. Here, sentence (B) can be termed as the first statement of this rearrangement as it clearly initiates the passage by stating the discovery of the Higgs Boson about ten years ago. Sentence (D) is the second statement as it further provides the information about the discoverer and the particle. This is then followed by sentence (F) which further gives information about the same and then the next statement is sentence (E) which is clearly in continuation with the previous one. Sentence (A) is the fifth statement of this rearrangement as it contradicts the fourth statement. And, the last statement is sentence (C), which successfully concluded the complete passage. Thus, the coherent rearrangement should be BDFEAC.

S20. Ans.(e)

Sol. The given passage talks about the discovery of “Higgs Boson”, which was marked as a significant event in the field of physics. Here, sentence (B) can be termed as the first statement of this rearrangement as it clearly initiates the passage by stating the discovery of the Higgs Boson about ten years ago. Sentence (D) is the second statement as it further provides the information about the discoverer and the particle. This is then followed by sentence (F) which further gives information about the same and then the next statement is sentence (E) which is clearly in continuation with the previous one. Sentence (A) is the fifth statement of this rearrangement as it contradicts the fourth statement. And, the last statement is sentence (C), which successfully concluded the complete passage. Thus, the coherent rearrangement should be BDFEAC.

S21. Ans.(a)

Sol. The given passage talks about the discovery of “Higgs Boson”, which was marked as a significant event in the field of physics. Here, sentence (B) can be termed as the first statement of this rearrangement as it clearly initiates the passage by stating the discovery of the Higgs Boson about ten years ago. Sentence (D) is the second statement as it further provides the information about the discoverer and the particle. This is then followed by sentence (F) which further gives information about the same and then the next statement is sentence (E) which is clearly in continuation with the previous one. Sentence (A) is the fifth statement of this rearrangement as it contradicts the fourth statement. And, the last statement is sentence (C), which successfully concluded the complete passage. Thus, the coherent rearrangement should be BDFEAC.

S22. Ans.(b)

Sol. The given passage talks about the discovery of “Higgs Boson”, which was marked as a significant event in the field of physics. Here, sentence (B) can be termed as the first statement of this rearrangement as it clearly initiates the passage by stating the discovery of the Higgs Boson about ten years ago. Sentence (D) is the second statement as it further provides the information about the discoverer and the particle. This is then followed by sentence (F) which further gives information about the same and then the next statement is sentence (E) which is clearly in continuation with the previous one. Sentence (A) is the fifth statement of this rearrangement as it contradicts the fourth statement. And, the last statement is sentence (C), which successfully concluded the complete passage. Thus, the coherent rearrangement should be BDFEAC.

S23. Ans.(c)

Sol. The given passage talks about the discovery of “Higgs Boson”, which was marked as a significant event in the field of physics. Here, sentence (B) can be termed as the first statement of this rearrangement as it clearly initiates the passage by stating the discovery of the Higgs Boson about ten years ago. Sentence (D) is the second statement as it further provides the information about the discoverer and the particle. This is then followed by sentence (F) which further gives information about the same and then the next statement is sentence (E) which is clearly in continuation with the previous one. Sentence (A) is the fifth statement of this rearrangement as it contradicts the fourth statement. And, the last statement is sentence (C), which successfully concluded the complete passage. Thus, the coherent rearrangement should be BDFEAC.

S24. Ans.(c)

Sol. The correct spelling of “eratic” is erratic. All other spellings are correct. Thus, option (c) is correct.
erratic – not even or regular in pattern or movement; unpredictable

S25. Ans.(b)

Sol. The correct spelling of “sensasion” is sensation. All other spellings are correct. Thus, option (b) is the correct answer.
sensation – a widespread reaction of interest and excitement

S26. Ans.(a)

Sol. The correct spelling of “rescent” is recent. All other spellings are correct. Thus, option (a) is the correct answer.
recent – having happened, begun, or been done not long ago; belonging to a past period comparatively close to the present

S27. Ans.(e)

Sol. Spellings of all the given words are correct. Thus, option (e) is the correct answer.

S28. Ans.(d)

Sol. The correct spelling of “uncertainty” is uncertainty. All other spellings are correct. Thus, option (d) is the correct answer.
uncertainty – the state of being uncertain

S29. Ans.(c)

Sol. After rearrangement according to the order of the marked option, the sentence becomes meaningful, comes out to be, BCAD,
“The JWST provides astronomers with the most powerful tool yet to scan the cosmos in infrared frequencies, picking up the most distant objects.”

S30. Ans.(a)

Sol. After rearrangement according to the order of the marked option, the sentence becomes meaningful, comes out to be, CABD
“These days, America’s mainstream environmental movement has begun to take a more confrontational approach in its protests and demonstrations.”

S31. Ans.(a)

Sol.

ATQ -

$$20(36 + s) \times \frac{5}{18} = 600$$

$$3600 + 100s = 10800$$

$$100s = 7200$$

$$s = 72 \text{ km/hr}$$

S32. Ans.(b)

Sol.

$$\text{Profit ratio of Mohit to Bholu} = [P \times 4 + (P + P) \times 8] : (2P \times 8) = 20P : 16P = 5 : 4$$

$$\text{So, profit of Mohit} = 13950 \times \frac{5}{9} = 7750 \text{ Rs.}$$

S33. Ans.(e)

Sol.

Let total amount invested by man = $10x$ Rs.

So, ratio of amount invested in scheme A and B respectively = $100\% : 150\% = 2 : 3$

$$\text{Equivalent CI for two years at the rate of } 20\% \text{ p.a. (for scheme A)} = 20 + 20 + \frac{20 \times 20}{100} = 44\%$$

$$\text{Equivalent CI for two years at the rate of } 20\% \text{ p.a. (for scheme B)} = 10 + 10 + \frac{10 \times 10}{100} = 21\%$$

ATQ

$$10x \times \frac{2}{5} \times \frac{44}{100} + 10x \times \frac{3}{5} \times \frac{21}{100} = 1208$$

$$\frac{176x}{100} + \frac{126x}{100} = 1208$$

$$x = 400 \text{ Rs.}$$

Required amount = 4000 Rs.

S34. Ans.(a)

Sol.

ATQ -

$$2(l + 9) = 42$$

$$2l = 24$$

$$l = 12 \text{ meters}$$

So, measurement of side of square = $36 - 12 = 24$ meters

S35. Ans.(e)

Sol.

Ratio of efficiency of pipes P, Q & R = $3 : 2 : 4$

So, let total capacity of tank = $(3x + 2x + 4x) \times 8 = 72x$ unit

$$\text{Required hours} = 72x \times \frac{3}{4} \times \frac{1}{3x} = 18 \text{ hours}$$

S36. Ans.(a)

Sol.

$$\text{Required percentage} = \frac{40-32}{40} \times 100 = 20\%$$

S37. Ans.(c)

Sol.

$$\text{Required sum} = (28 + 12) + (38 + 15) = 93$$

S38. Ans.(c)

Sol.

$$\text{Required average} = \frac{50+32+38}{3} = 40$$

S39. Ans.(b)

Sol.

Let total reels shared by T = x

So, total photos shared by T = (x + 4)

ATQ -

$$x + x + 4 = 44$$

$$2x = 40$$

$$x = 20$$

S40. Ans.(a)

Sol.

$$\text{Total photos shared by Q} = 28 \times \frac{5}{14} = 10$$

S41. Ans.(d)

Sol.

Pattern of series -

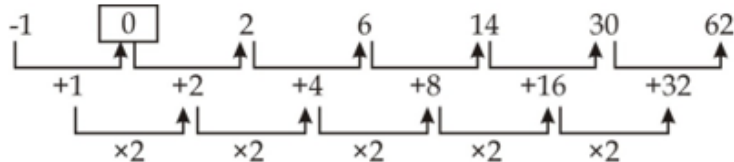


So, the wrong no. in this series is 640

S42. Ans.(a)

Sol.

Pattern of series -

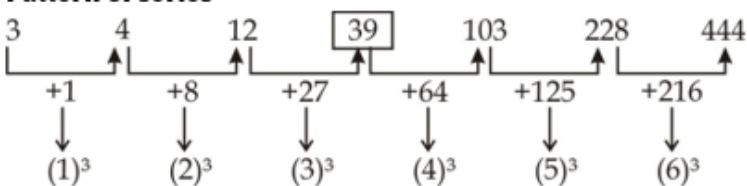


So, the wrong no. in this series is 1

S43. Ans.(c)

Sol.

Pattern of series -

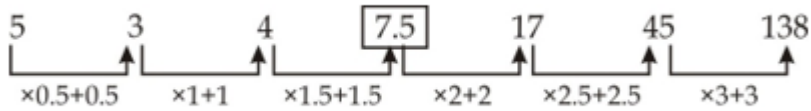


So, the wrong no. in this series is 41.

S44. Ans.(b)

Sol.

Pattern of series -

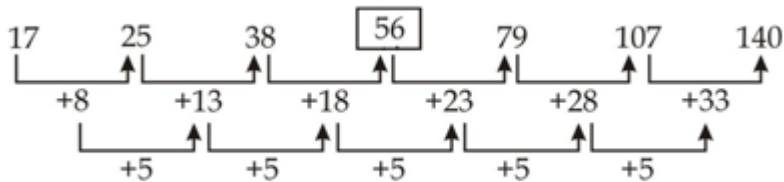


So, the wrong no. in this series is 7.

S45. Ans.(d)

Sol.

Pattern of series -



So, the wrong no. in this series is 53.

S46. Ans.(c)

Sol.

$$\sqrt{2500} + \frac{15}{100} \times 14 = ?$$

$$50 + 2.1 = ?$$

$$52.1 = ?$$

S47. Ans.(c)

Sol.

$$\frac{36+3 \times ?}{23} + 1 = 52$$

$$36 + 3 \times ? + 23 = 52 \times 23$$

$$3 \times ? + 59 = 1196$$

$$3 \times ? = 1196 - 59$$

$$3 \times ? = 1137$$

$$? = 379$$

S48. Ans.(c)

Sol.

$$\frac{?}{11} = \sqrt[3]{8} \times (3)^2 - \sqrt{81}$$

$$? = (2 \times 9 - 9) \times 11$$






$$? = 99$$



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S49. Ans.(d)

Sol.

$$\begin{aligned} ? &= (13)^2 - (16)^2 + (7)^2 \\ &= 169 - 256 + 49 \\ &= -38 \end{aligned}$$

S50. Ans.(c)

Sol.

$$\begin{aligned} ? &= 25\% \text{ of } 640 + 45\% \text{ of } 360 \\ ? &= 160 + 162 \\ ? &= 322 \end{aligned}$$

S51. Ans.(d)

Sol.

$$\begin{aligned} \frac{640}{?} &= (3375 - 2700) \times \frac{1}{33.75} \\ \frac{640}{?} &= 20 \\ ? &= 32 \end{aligned}$$

S52. Ans.(b)

Sol.

$$\begin{aligned} ?^2 &= \frac{85}{100} \times 280 + 34 - 224 + 96 \\ ?^2 &= 144 \\ ? &= 12 \end{aligned}$$

S53. Ans.(b)

Sol.

$$\begin{aligned} 39 + 441 - 90 &= 5 \times ? \\ 5 \times ? &= 390 \\ ? &= 78 \end{aligned}$$

S54. Ans.(a)

Sol.

$$\begin{aligned} (?)^2 &= \frac{48}{100} \times 800 + \frac{125}{100} \times 1200 - 120 \\ (?)^2 &= 384 + 1500 - 120 \\ (?)^2 &= 1764 \\ ? &= 42 \end{aligned}$$

S55. Ans.(b)

Sol.

$$\begin{aligned} \frac{?}{100} \times 700 &= 1166 - 18 \\ ? &= \frac{1148}{7} \\ ? &= 164 \end{aligned}$$

S56. Ans.(e)

Sol.

$$? = 27 + 87 - 48 + 39 = 105$$

S57. Ans.(b)

Sol.

$$\begin{aligned} ? &= \frac{44}{100} \times 250 + \frac{30}{100} \times 270 + 169 \\ &= 110 + 81 + 169 \\ &= 360 \end{aligned}$$

S58. Ans.(d)

Sol.

$$\begin{aligned} \frac{510}{?} &= \sqrt{324} + \sqrt{256} \\ \Rightarrow \frac{510}{?} &= 18 + 16 \\ \Rightarrow ? &= \frac{510}{34} = 15 \end{aligned}$$

S59. Ans.(a)

Sol.

$$\begin{aligned} ? &= \frac{209}{399} \times 21^2 - (11)^2 \\ ? &= \frac{19 \times 11}{19 \times 21} \times 21^2 - 11^2 \\ ? &= 231 - 121 = 110 \end{aligned}$$

S60. Ans.(a)

Sol.

$$\begin{aligned} ? &= 9 + 28 + 4 - 7 \\ &= 34 \end{aligned}$$

S61. Ans.(b)

Sol.

$$\text{Required production} = 15000 \times \frac{90}{100} \times \frac{120}{100} = 16200 \text{ kg}$$

S62. Ans.(b)

Sol.

Let the cost price of table be Rs. $100x$

So, marked price of table = $100x \times \frac{3}{2} = 150x$ Rs.

Selling price of table = $150x \times \frac{8}{9} \times \frac{9}{10} = \text{Rs. } 120x$ Rs.

Profit = $120x - 100x = \text{Rs. } 20x$

Discount given = $150x - 120x = \text{Rs. } 30x$

ATQ,

$$10x = 200$$

$$x = 20$$

Marked price of table = Rs 3000

S63. Ans.(b)

Sol.

Let the speed of boat in still water be x km/hr and that of stream be y km/hr.

ATQ

$$(x + y) - (x - y) = 5$$

$$\Rightarrow y = 2.5 \text{ km/hr}$$

$$x = 2.5 \times \frac{19}{5} = 9.5 \text{ km/hr}$$

$$\text{Required time} = \frac{42}{(9.5+2.5)} + \frac{31.5}{(9.5-2.5)} = 8 \text{ hr}$$

S64. Ans.(a)

Sol.

Let initial quantity of Milk = $5x$

$$\text{So, quantity of water} = 5x \times \frac{60}{100} = 3x$$

So,

$$\frac{5x - \frac{5}{8} \times 16}{8x} = \frac{1}{2}$$

$$5x - 10 = 4x$$

$$x = 10$$

$$\text{Initial quantity of mixture} = (5 + 3) \times 10 = 80 \text{ liters}$$

S65. Ans.(b)

Sol.

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

$$\text{So, present age of Q} = 8n \times \frac{5}{8} = 5n \text{ years}$$

$$\text{Now, present age of R} = 35 \times 2 - 5n = (70 - 5n) \text{ years}$$

ATQ,

$$(8n - 5) + (5n - 5) = 55$$

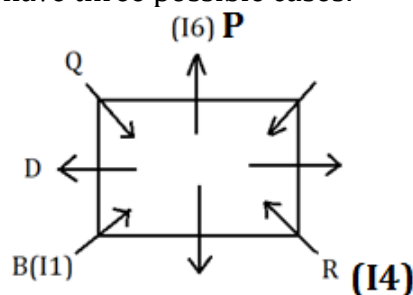
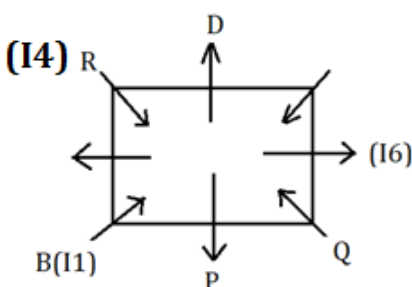
$$n = 5$$

$$\text{Required difference} = (70 - 5n) - 8n = 5 \text{ years}$$



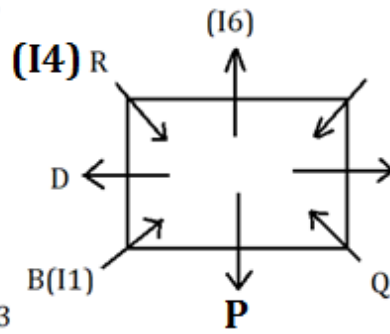
S66. Ans.(e)

Sol. From the given statements, B who sits at one of the corners of the table likes I1. Only two persons sit between B and the one who like I6. D sits second to the left of the one who likes I6. Q faces R who likes I4. P sits third to the right of R so we have three possible cases:



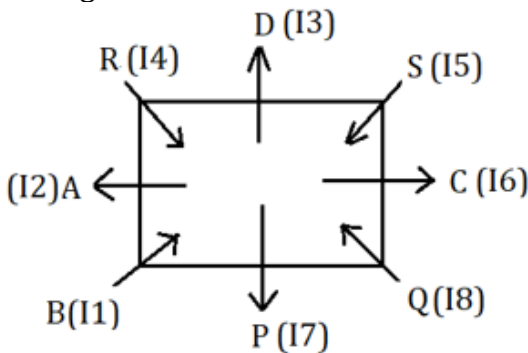
case-1

case-2



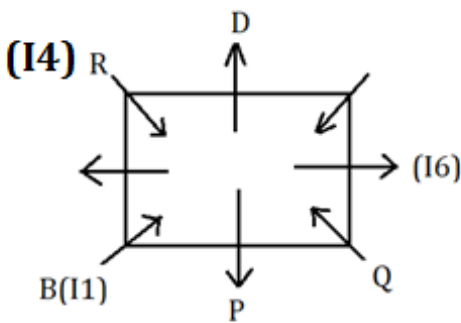
case-3

The one who likes I5 sits immediate left of C and immediate right of D. So, case 2 and case 3 get eliminated here. S is not an immediate neighbor of B. A sits second to the right of the one who likes I7. The one who likes I8 sits immediate left of P. A does not like I3. One of them likes I2. Hence the final arrangement is:



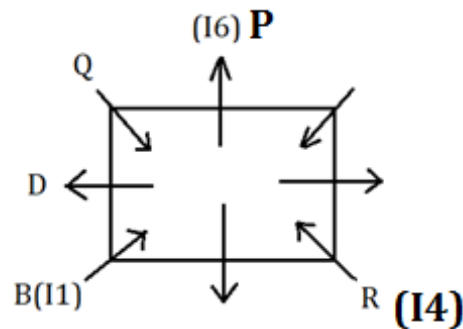
S67. Ans.(c)

Sol.
From the given statements, B who sits at one of the corners of the table likes I1. Only two persons sit between B and the one who like I6. D sits second to the left of the one who likes I6. Q faces R who likes I4. P sits third to the right of R so we have three possible cases:

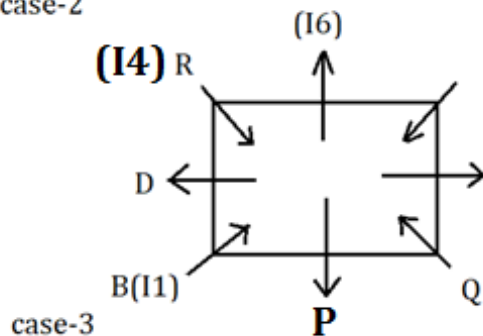


case-1

case-2

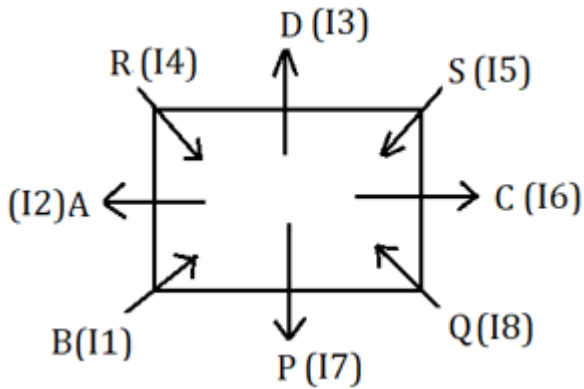


case-2



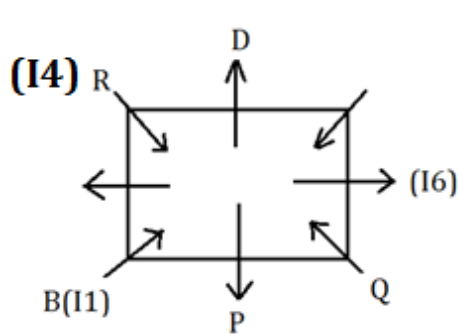
case-3

The one who likes I5 sits immediate left of C and immediate right of D. So, case 2 and case 3 get eliminated here. S is not an immediate neighbor of B. A sits second to the right of the one who likes I7. The one who likes I8 sits immediate left of P. A does not like I3. One of them likes I2. Hence the final arrangement is:

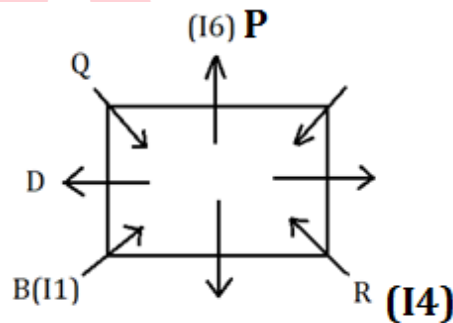


S68. Ans.(b)

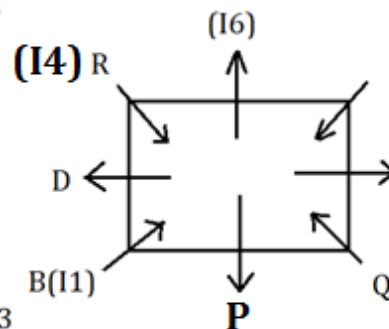
Sol. From the given statements, B who sits at one of the corners of the table likes I1. Only two persons sit between B and the one who like I6. D sits second to the left of the one who likes I6. Q faces R who likes I4. P sits third to the right of R so we have three possible cases:



case-1

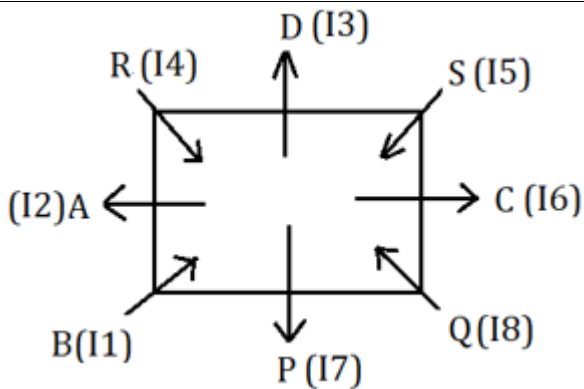


case-2



case-3

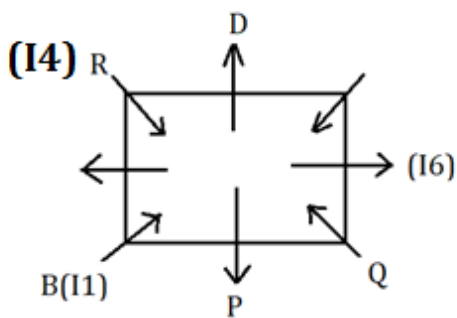
The one who likes I5 sits immediate left of C and immediate right of D. So, case 2 and case 3 get eliminated here. S is not an immediate neighbor of B. A sits second to the right of the one who likes I7. The one who likes I8 sits immediate left of P. A does not like I3. One of them likes I2. Hence the final arrangement is:



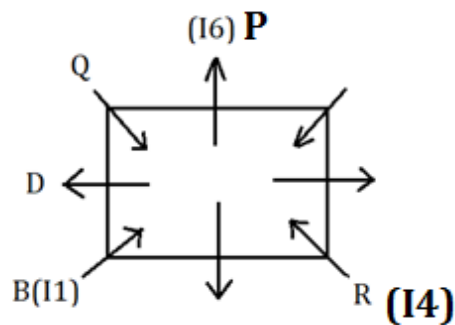
S69. Ans.(d)

Sol.

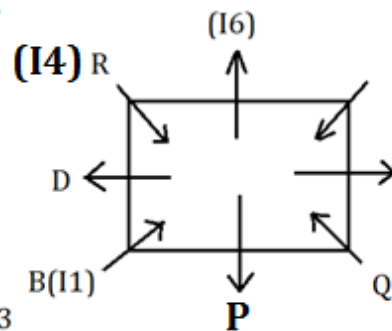
From the given statements, B who sits at one of the corners of the table likes I1. Only two persons sit between B and the one who like I6. D sits second to the left of the one who likes I6. Q faces R who likes I4. P sits third to the right of R so we have three possible cases:



case-1

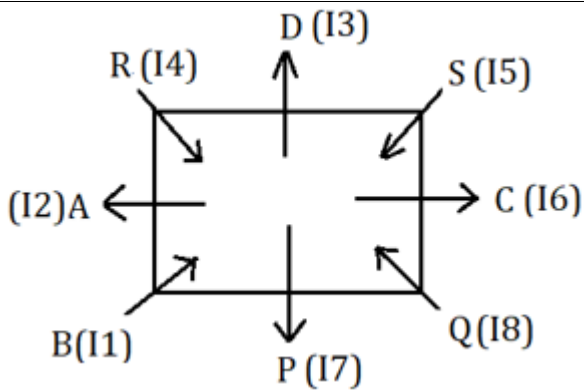


case-2



case-3

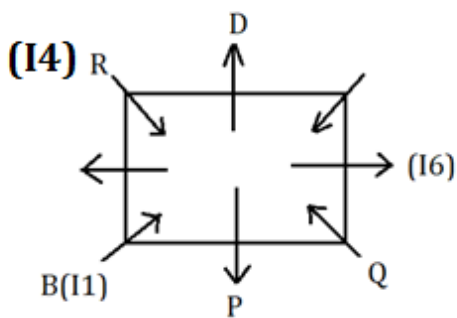
The one who likes I5 sits immediate left of C and immediate right of D. So, case 2 and case 3 get eliminated here. S is not an immediate neighbor of B. A sits second to the right of the one who likes I7. The one who likes I8 sits immediate left of P. A does not like I3. One of them likes I2. Hence the final arrangement is:



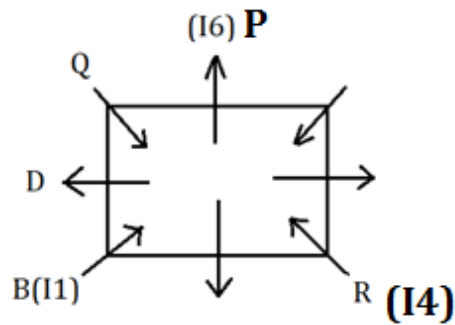
S70. Ans.(b)

Sol.

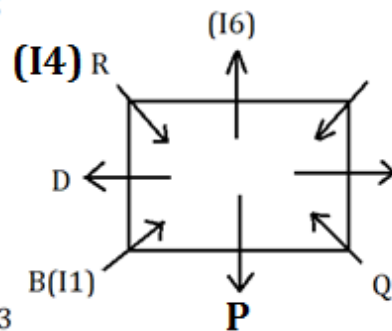
From the given statements, B who sits at one of the corners of the table likes I1. Only two persons sit between B and the one who like I6. D sits second to the left of the one who likes I6. Q faces R who likes I4. P sits third to the right of R so we have three possible cases:



case-1

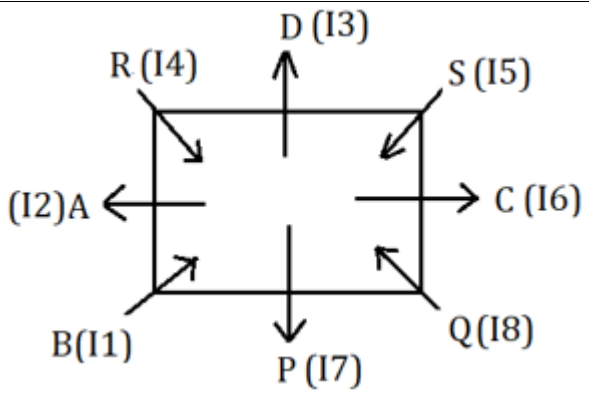


case-2



case-3

The one who likes I5 sits immediate left of C and immediate right of D. So, case 2 and case 3 get eliminated here. S is not an immediate neighbor of B. A sits second to the right of the one who likes I7. The one who likes I8 sits immediate left of P. A does not like I3. One of them likes I2. Hence the final arrangement is:



S71. Ans.(d)
185 654 467 761 356
Sol. 581 456 764 167 653

S72. Ans.(e)
185 654 467 761 356
Sol. 195 664 477 771 366

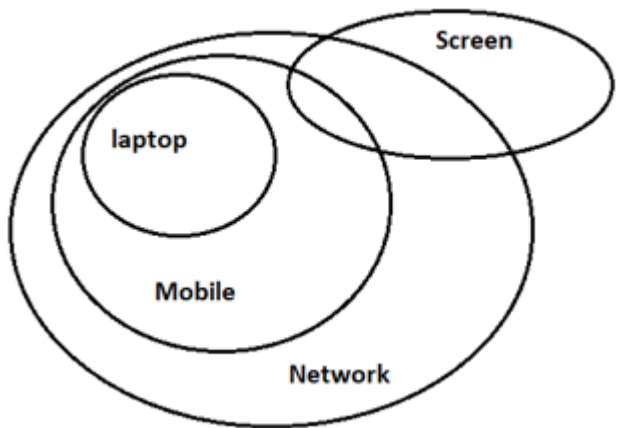
S73. Ans.(e)
185 654 467 761 356
Sol. 815 564 647 671 536

S74. Ans.(d)

S75. Ans.(d)
185 654 467 761 356
Sol. 14 15 17 14 14

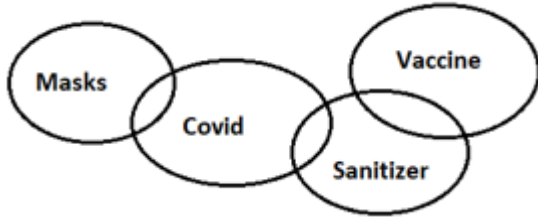
S76. Ans.(a)

Sol.



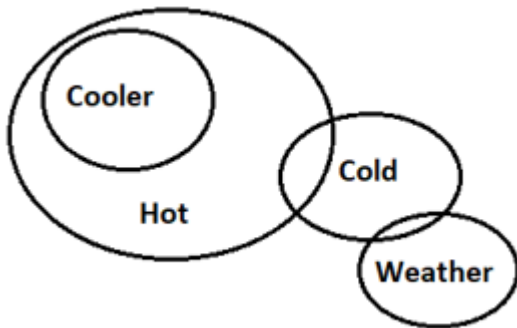
S77. Ans.(e)

Sol.



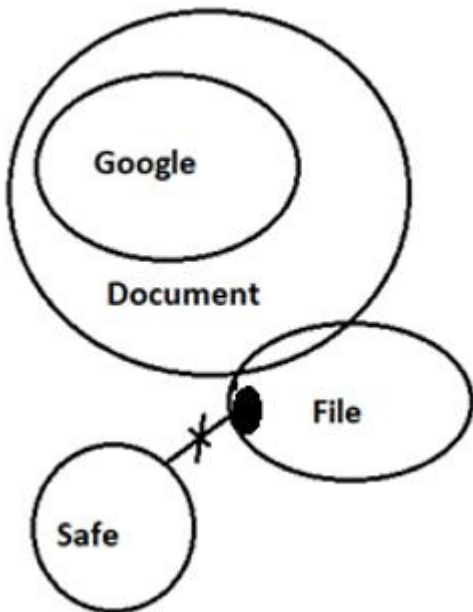
S78. Ans.(b)

Sol.



S79. Ans.(d)

Sol.



S80. Ans.(c)

Sol.



From the given statements, there are two persons who have their designations between Q and U who is senior to the Manager. Q is not SO. S who is immediately senior to U is junior to P. So we have two possible cases:

Designations	Case-1	Case-2
	Persons	Persons
Chairman	Q	P
GM	P	S
DGM	S	U
AGM	U	
Manager		
Assistant manager		Q
SO		
Cashier		
Clerk		

Only three persons have designations between P and W. Only one person is junior to X. Only two persons have designations between X and R. So case-2 is eliminated. T is senior to V. Hence the final arrangement is:

Designations	Persons
Chairman	Q
GM	P
DGM	S
AGM	U
Manager	R
Assistant Manager	W
SO	T
Cashier	X
Clerk	V

S81. Ans.(a)

Sol.
From the given statements, there are two persons who have their designations between Q and U who is senior to the Manager. Q is not SO. S who is immediately senior to U is junior to P. So we have two possible cases:

Designations	Case-1	Case-2
	Persons	Persons
Chairman	Q	P
GM	P	S
DGM	S	U
AGM	U	
Manager		
Assistant manager		Q
SO		
Cashier		
Clerk		

Only three persons have designations between P and W. Only one person is junior to X. Only two persons have designations between X and R. So case-2 is eliminated. T is senior to V. Hence the final arrangement is:

Designations	Persons
Chairman	Q
GM	P
DGM	S
AGM	U
Manager	R
Assistant Manager	W
SO	T
Cashier	X
Clerk	V

S82. Ans.(b)

Sol.
From the given statements, there are two persons who have their designations between Q and U who is senior to the Manager. Q is not SO. S who is immediately senior to U is junior to P. So we have two possible cases:

Designations	Case-1	Case-2
	Persons	Persons
Chairman	Q	P
GM	P	S
DGM	S	U
AGM	U	
Manager		
Assistant manager		Q
SO		
Cashier		
Clerk		

Only three persons have designations between P and W. Only one person is junior to X. Only two persons have designations between X and R. So case-2 is eliminated. T is senior to V. Hence the final arrangement is:

Designations	Persons
Chairman	Q
GM	P
DGM	S
AGM	U
Manager	R
Assistant Manager	W
SO	T
Cashier	X
Clerk	V

S83. Ans.(d)

Sol.

From the given statements, there are two persons who have their designations between Q and U who is senior to the Manager. Q is not SO. S who is immediately senior to U is junior to P. So we have two possible cases:

Designations	Case-1	Case-2
	Persons	Persons
Chairman	Q	P
GM	P	S
DGM	S	U
AGM	U	
Manager		
Assistant manager		Q
SO		
Cashier		
Clerk		

Only three persons have designations between P and W. Only one person is junior to X. Only two persons have designations between X and R. So case-2 is eliminated. T is senior to V. Hence the final arrangement is:

Designations	Persons
Chairman	Q
GM	P
DGM	S
AGM	U
Manager	R
Assistant Manager	W
SO	T
Cashier	X
Clerk	V

S84. Ans.(e)

Sol.

From the given statements, there are two persons who have their designations between Q and U who is senior to the Manager. Q is not SO. S who is immediately senior to U is junior to P. So we have two possible cases:

Designations	Case-1	Case-2
	Persons	Persons
Chairman	Q	P
GM	P	S
DGM	S	U
AGM	U	
Manager		
Assistant manager		Q
SO		
Cashier		
Clerk		

Only three persons have designations between P and W. Only one person is junior to X. Only two persons have designations between X and R. So case-2 is eliminated. T is senior to V. Hence the final arrangement is:

Designations	Persons
Chairman	Q
GM	P
DGM	S
AGM	U
Manager	R
Assistant Manager	W
SO	T
Cashier	X
Clerk	V

S85. Ans.(a)

Sol. I. $H \geq F$ (True)

II. $A \leq J$ (False)

S86. Ans.(b)

Sol. I. $N \leq D$ (False)

II. $F < Z$ (True)

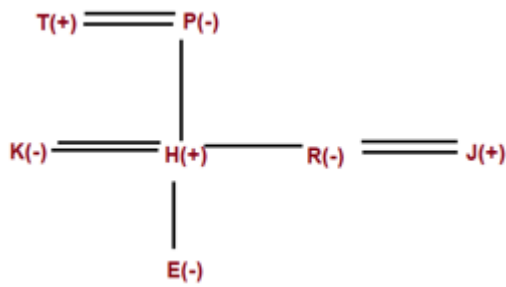
S87. Ans.(d)

Sol. I. $H \leq Z$ (False)

II. $F > E$ (False)

S88. Ans.(b)

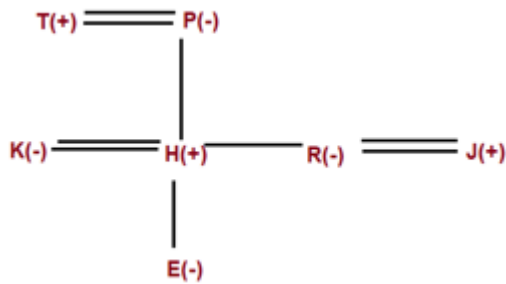
Sol.



P is married to the father of R.

S89. Ans.(d)

Sol.



K is the sister-in-law of J.

S90. Ans.(b)

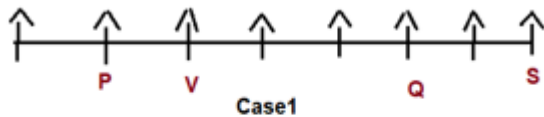
Sol. There are two such pairs (C, H), (K, I).

S91. Ans.(a)

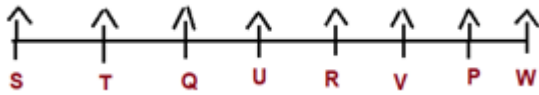
Sol.

By using all the given information:

S sits at one of the extreme ends of the row. We have two possible cases for that Case 1 and Case 2. One person sits between S and Q. Three persons sit between Q and P. V sits adjacent to P but not at any extreme ends of the row.



U sits 2nd to the left of V. W does not sit adjacent to Q and V. Now Case 1 will be eliminated as we can't place W. T sits 3rd to the left of R. Now we have our final arrangements.

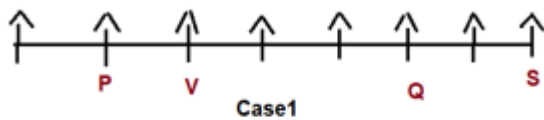


S92. Ans.(c)

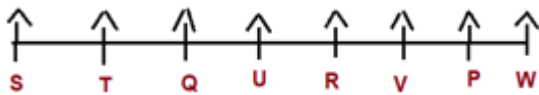
Sol.

By using all the given information:

S sits at one of the extreme ends of the row. We have two possible cases for that Case 1 and Case 2. One person sits between S and Q. Three persons sit between Q and P. V sits adjacent to P but not at any extreme ends of the row.



U sits 2nd to the left of V. W does not sit adjacent to Q and V. Now Case 1 will be eliminated as we can't place W. T sits 3rd to the left of R. Now we have our final arrangements.

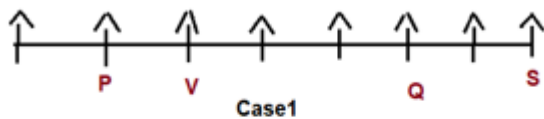


S93. Ans.(c)

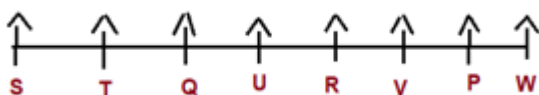
Sol.

By using all the given information:

S sits at one of the extreme ends of the row. We have two possible cases for that Case 1 and Case 2. One person sits between S and Q. Three persons sit between Q and P. V sits adjacent to P but not at any extreme ends of the row.



U sits 2nd to the left of V. W does not sit adjacent to Q and V. Now Case 1 will be eliminated as we can't place W. T sits 3rd to the left of R. Now we have our final arrangements.

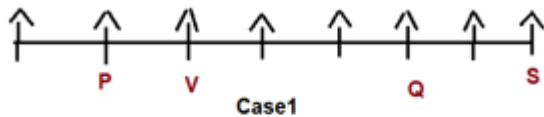


S94. Ans.(d)

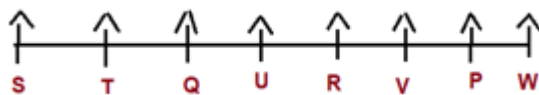
Sol.

By using all the given information:

S sits at one of the extreme ends of the row. We have two possible cases for that Case 1 and Case 2. One person sits between S and Q. Three persons sit between Q and P. V sits adjacent to P but not at any extreme ends of the row.



U sits 2nd to the left of V. W does not sit adjacent to Q and V. Now Case 1 will be eliminated as we can't place W. T sits 3rd to the left of R. Now we have our final arrangements.

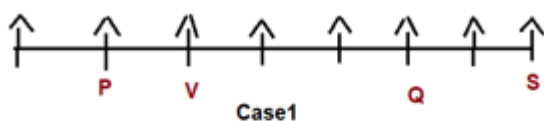


S95. Ans.(e)

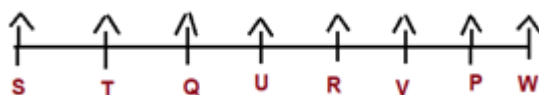
Sol.

By using all the given information:

S sits at one of the extreme ends of the row. We have two possible cases for that Case 1 and Case 2. One person sits between S and Q. Three persons sit between Q and P. V sits adjacent to P but not at any extreme ends of the row.



U sits 2nd to the left of V. W does not sit adjacent to Q and V. Now Case 1 will be eliminated as we can't place W. T sits 3rd to the left of R. Now we have our final arrangements.



S96. Ans.(c)

Sol.

By using all the given information:

At most two persons live above H. Three persons live between H and G. One person lives between G and D who does not live on an odd number floor. Three persons live between D and A who lives on one of the floors above D. We have two possible cases for that. Case 1 and Case 2.

Floors	Persons Case1	Persons Case2
8	A	H
7		
6	H	A
5		
4	D	G
3		
2	G	D
1		

B lives on a floor just below A. Three persons live between B and C who does not live on the 1st floor. Now Case 2 will be eliminated as we can't place C. E lives above F. Now we have our final arrangements.

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

S97. Ans.(d)

Sol.

By using all the given information:

At most two persons live above H. Three persons live between H and G. One person lives between G and D who does not live on an odd number floor. Three persons live between D and A who lives on one of the floors above D. We have two possible cases for that. Case 1 and Case 2.

Floors	Persons Case1	Persons Case2
8	A	H
7		
6	H	A
5		
4	D	G
3		
2	G	D
1		

B lives on a floor just below A. Three persons live between B and C who does not live on the 1st floor. Now Case 2 will be eliminated as we can't place C. E lives above F. Now we have our final arrangements.

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

S98. Ans.(e)

Sol.

By using all the given information:

At most two persons live above H. Three persons live between H and G. One person lives between G and D who does not live on an odd number floor. Three persons live between D and A who lives on one of the floors above D. We have two possible cases for that. Case 1 and Case 2.

Floors	Persons Case1	Persons Case2
8	A	H
7		
6	H	A
5		
4	D	G
3		
2	G	D
1		

B lives on a floor just below A. Three persons live between B and C who does not live on the 1st floor. Now Case 2 will be eliminated as we can't place C. E lives above F. Now we have our final arrangements.

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

S99. Ans.(e)

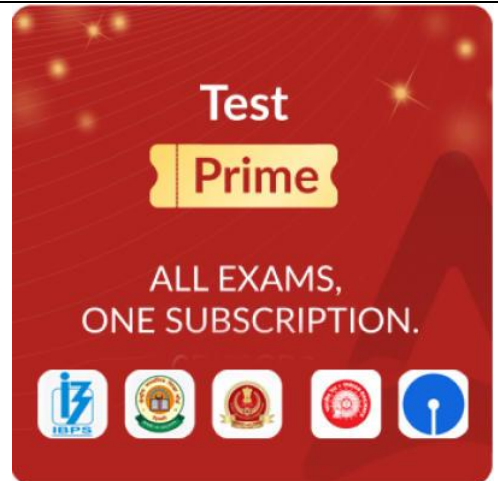
Sol.

By using all the given information:

At most two persons live above H. Three persons live between H and G. One person lives between G and D who does not live on an odd number floor. Three persons live between D and A who lives on one of the floors above D. We have two possible cases for that. Case 1 and Case 2.


Floors	Persons Case1	Persons Case2
8	A	H
7		
6	H	A
5		
4	D	G
3		
2	G	D
1		

B lives on a floor just below A. Three persons live between B and C who does not live on the 1st floor. Now Case 2 will be eliminated as we can't place C. E lives above F. Now we have our final arrangements.



Test Prime

ALL EXAMS,
ONE SUBSCRIPTION.



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

S100. Ans.(e)

Sol.
By using all the given information:
At most two persons live above H. Three persons live between H and G. One person lives between G and D who does not live on an odd number floor. Three persons live between D and A who lives on one of the floors above D. We have two possible cases for that. Case 1 and Case 2.

Floors	Persons Case1	Persons Case2
8	A	H
7		
6	H	A
5		
4	D	G
3		
2	G	D
1		

B lives on a floor just below A. Three persons live between B and C who does not live on the 1st floor. Now Case 2 will be eliminated as we can't place C. E lives above F. Now we have our final arrangements.

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