

SBI PO Pre Mock-07 Based on 3rd shift- 21st November 2021

Directions (1-9): Read the following passage carefully and answer the questions given below it. Certain words have been printed in bold to help you locate them, while answering some of the questions.

By the end of May 2021, only 2.1% of Africans had received at least one dose of a COVID-19 vaccine. We need to close the vaccination gap between advanced economies and developing countries to avoid what the World Health Organization (WHO) Director-General, Dr. Tedros Adhanom Ghebreyesu has called “vaccination apartheid”. Doing so is both morally right and in everyone’s interest. Therefore, we need global multilateral action to increase the production of vaccines and **accelerate** the roll-out worldwide. Since the beginning of the novel coronavirus pandemic, this is the path chosen by the European Union (EU). It is now also the path defined by the G20 leaders at the Global Health Summit in Rome on May 21.

The pandemic is still killing thousands of people every day and at the current pace, the whole world will not be vaccinated before 2023. Yet, a widely vaccinated world population is the only way to end the pandemic; otherwise, the multiplication of variants is likely to **undermine** the effectiveness of existing vaccines. Vaccination is also a prerequisite for lifting the restrictions that are holding back our economies and freedoms. These restrictions penalise the whole world, but they weigh even more heavily on developing countries. Advanced countries can rely more on social mechanisms and economic policy levers to limit the impact of the pandemic on their citizens.

If the vaccination gap persists, it risks reversing the trend in recent decades of declining poverty and global inequalities. Such a negative dynamic would hold back economic activity and increase geopolitical tensions. The cost of inaction would for sure be much higher for advanced economies than what we collectively would have to spend to help vaccinate the whole world. Therefore, the EU welcomes the \$50 billion plan proposed by the International Monetary Fund in order to be able to vaccinate 40% of the world population in 2021 and 60% by mid-2022.

To achieve this goal, we need closely coordinated multilateral action. We must **resist** the threat posed by linking the provision of vaccines to political goals and “vaccine nationalism”. The EU has rejected both since the beginning of the pandemic. The EU has been vaccinating its own population, while exporting large volumes of vaccines and contributing **substantially** to the vaccines roll-out in low-income countries. Europeans can be proud of this record. India’s “Vaccine Maitri” is another example of global solidarity. In 2020, the EU supported the research and development of vaccines on a large scale and contributed significantly to the new generation of mRNA vaccines. The EU then became a major producer of COVID-19 vaccines with, according to WHO, around 40% of the doses used globally so far. The EU has also exported 240 million doses to 90 countries, which is about as much as we have used within the EU.

Q1. Why there is a need to increase the pace of production and vaccine drive?

- (a) because the medication is not enough efficient to fight COVID-19 infection
- (b) it is imperative both ethically right and for everyone’s well being
- (c) as the government is seeking to give approval to many more vaccine manufacturer companies
- (d) because an increase in the number of cases has become threefold than before
- (e) None of these

Q2. Which of the following will be the consequence of lack of sufficient supply of vaccine?

- (a) the existing vaccine will not be efficient for an outbreak of new variants of infections
- (b) the economic impact of the COVID-19 pandemic in India will be largely disruptive
- (c) the perpetuate Covid-19 pandemic will erode all the available necessary resources
- (d) enlarging the variant will wear away the efficacy of the available vaccine
- (e) None of these

Q3. Which of the following is/are the contribution(s) of international organizations to fight pandemics?

- (I) continuous efforts have been put by them in order to provide vaccines throughout the world.
 - (II) financial aid has been given for the coverage of population for vaccine
 - (III) by ensuring food security to everyone to make sure minimum death due to starvation
- (a) Only (i)
 - (b) Both (i) and (ii)
 - (c) Both (i) and (iii)
 - (d) Only (iii)
 - (e) All are correct

Q4. Although patriotism is praiseworthy, why it is not like the same in the case according to the passage?

- (a) global politics during pandemic making it more challenging to control the spread of the virus
- (b) nationalism is necessary for national security and cannot be compromised by any nation
- (c) promote the interest of own nation only will contradict the idea of vaccination drive for everyone
- (d) EU is exporting vaccines to many countries and setting it as an example of global cooperation
- (e) None of these

Q5. Which of the following statements can be concluded from the passage as a solution?

- (a) more financial aids are required as there is a lack of resources for the manufacturers of the vaccine
- (b) Immunisation needs cooperation and is rudimentary for abolishing the international restrictions
- (c) the restrictions need to be extended to stop people from gathering and spread of the transmitted virus
- (d) the production of vaccines should be increased as its supply is much lesser than the demand
- (e) None of these

Q6. Among the given options, choose the word which can replace the highlighted word in the given passage.

UNDERMINE

- (a) dawdle
- (b) cripple
- (c) supervene
- (d) draconian
- (e) None of these

Q7. Among the given options, choose the word with the most similar meaning of the given word.

ACCELERATE

- (a) expedite
- (b) noxious
- (c) fervent
- (d) fitful
- (e) None of these

Q8. Among the given options, choose the word with the opposite in meaning of the given word.

Substantially

- (a) flout
- (b) offensive
- (c) flawed
- (d) paltry
- (e) None of these

Q9. Among the given options, choose the word with the most similar meaning of the given word.

RESIST

- (a) withstand
- (b) accredit
- (c) support
- (d) appeal
- (e) None of these

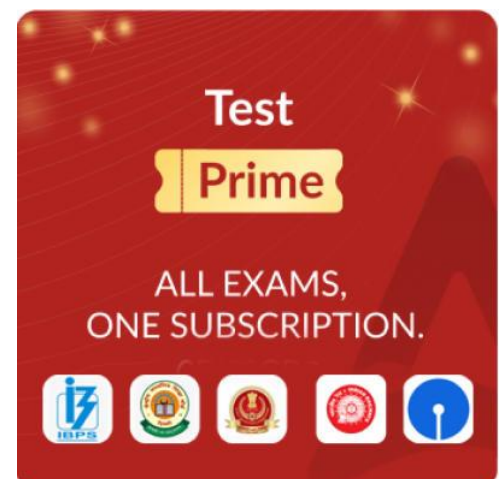
Directions (10-13): Read each sentence to find out whether there is any grammatical or idiomatic error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. If there is 'No error', the answer is 'e'. (Ignore errors of punctuation, if any.)

Q10. He has launched an array of lawsuits (A)/ to press claims of election fraud (B)/ for which he has(C)/ produced no evidence (D) /no error (E)

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

Q11. The Capital's air quality (A)/ is likely to stay severe on Tuesday (B)/ with no quick recovery expected (C)/ unless there is a no drastic reduction (D)/ no error (E)

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



Q12. The candidates can pay the (A)/ entire bond amount without recourse to the loan (B)/ or the State government will facilitate him (C)/for availing an education loan (D)/ no error (E).

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

Q13. It is an unwritten global phenomenon (A)/ that a lot of genuine contribution (B)/ to society are required for any (C)/ politician to win democratic elections (D)./ no error. (E)

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

Directions (14-18): A word has been given in each question and has been used in the sentences given below. Identify the statements where the word has been used in a contextually and grammatically correct manner.

Q14. Edify

- (i) Travelling is an **edifying** experience, especially for young people.
- (ii) No-one would claim that the film is morally **edifying**.
- (iii) The medicine had an immediate **edify**.

- (a) only (i) and (ii)
- (b) only (ii)
- (c) only (i) and (iii)
- (d) All of these
- (e) none of these

Q15. Debilitate

- (i) Yoga keeps mentally strong and **debilitate** physically.
- (ii) It is expected that the illness will **debilitate** him for at least another week.
- (iii) A scientist recently discovered a drug that can quickly **debilitate** the growth of cancer cells.

- (a) only (i) and (ii)
- (b) only (ii)
- (c) only (ii) and (iii)
- (d) All of these
- (e) none of these

Q16. Vigilance

- (i) The inability to find a cure for the fatal disease has **vigilance** the team of doctors for many years
(ii) we were **vigilance** movie in late night yesterday.
(iii) he was appointed officer in **vigilance** team.
(a) only (ii)
(b) only (ii)
(c) only (iii)
(d) All of these
(e) none of these

Q17. Moribund

- (i) Every company other than a One Person Company shall **moribund** in each year hold in
(ii) The dog became **moribund** after being hit by a car.
(iii) The plant was **moribund** and needed water urgently to survive
(a) only (ii)
(b) only (ii) and (iii)
(c) only (i)
(d) All of these
(e) none of these

Q18. Inevitable

- (i) Death is an **inevitable** part of the human experience.
(ii) It was **inevitable** that the sun would rise again tomorrow.
(III) The passage of time is **inevitable**.
(a) only (ii)
(b) only (ii) and (i)
(c) both (i) and (iii)
(d) all of these
(e) none of these

Directions (19-25): Given below is a paragraph that has blank spaces. Corresponding to each blank, five options are given, out of which only one is appropriate. Choose the option that fits most suitably in the given blank making that sentence grammatically and contextually correct.

Q19. When NITI Aayog Member (Health), _____ (19) last week that it was the lack of _____ (20) that has led to poor management of the ongoing COVID-19 vaccination drive, States joined issue with this statement. Going by the response to this assertion from State governments, it was clear that this claim was not backed by good evidence. Not many could have _____ (21) the subtext of this claim for centralisation. It lies within, and _____ (22) contributes to, a narrative and practice of the growing centralisation of power by the current government. This sits well with the growing _____ (23) of the Union government into sectors where State governments have a primary _____ (24) to govern such as health, education and agriculture. Slogans such as 'one nation-one tax, one market and one ration' are again part of such _____ (25) to a narrative of a strong nation state rather than one of governance.

- (a) beguile
- (b) asserted
- (c) callous
- (d) cajole
- (e) ascetic

Q20. When NITI Aayog Member (Health), _____ (19) last week that it was the lack of _____ (20) that has led to poor management of the ongoing COVID-19 vaccination drive, States joined issue with this statement. Going by the response to this assertion from State governments, it was clear that this claim was not backed by good evidence. Not many could have _____ (21) the subtext of this claim for centralisation. It lies within, and _____ (22) contributes to, a narrative and practice of the growing centralisation of power by the current government. This sits well with the growing _____ (23) of the Union government into sectors where State governments have a primary _____ (24) to govern such as health, education and agriculture. Slogans such as 'one nation-one tax, one market and one ration' are again part of such _____ (25) to a narrative of a strong nation state rather than one of governance.

- (a) fallout
- (b) convivial
- (c) rhetoric
- (d) centralization
- (e) disparate

Q21. When NITI Aayog Member (Health), _____ (19) last week that it was the lack of _____ (20) that has led to poor management of the ongoing COVID-19 vaccination drive, States joined issue with this statement. Going by the response to this assertion from State governments, it was clear that this claim was not backed by good evidence. Not many could have _____ (21) the subtext of this claim for centralisation. It lies within, and _____ (22) contributes to, a narrative and practice of the growing centralisation of power by the current government. This sits well with the growing _____ (23) of the Union government into sectors where State governments have a primary _____ (24) to govern such as health, education and agriculture. Slogans such as 'one nation-one tax, one market and one ration' are again part of such _____ (25) to a narrative of a strong nation state rather than one of governance.

- (a) ubiquitous
- (b) travesty
- (c) egregious
- (d) misread
- (e) promulgate

Q22. When NITI Aayog Member (Health), _____ (19) last week that it was the lack of _____ (20) that has led to poor management of the ongoing COVID-19 vaccination drive, States joined issue with this statement. Going by the response to this assertion from State governments, it was clear that this claim was not backed by good evidence. Not many could have _____ (21) the subtext of this claim for centralisation. It lies within, and _____ (22) contributes to, a narrative and practice of the growing centralisation of power by the current government. This sits well with the growing _____ (23) of the Union government into sectors where State governments have a primary _____ (24) to govern such as health, education and agriculture. Slogans such as 'one nation-one tax, one market and one ration' are again part of such _____ (25) to a narrative of a strong nation state rather than one of governance.

- (a) consecutively
- (b) simultaneously
- (c) cognizant
- (d) embezzlement
- (e) denigrate

Q23. When NITI Aayog Member (Health), _____ (19) last week that it was the lack of _____ (20) that has led to poor management of the ongoing COVID-19 vaccination drive, States joined issue with this statement. Going by the response to this assertion from State governments, it was clear that this claim was not backed by good evidence. Not many could have _____ (21) the subtext of this claim for centralisation. It lies within, and _____ (22) contributes to, a narrative and practice of the growing centralisation of power by the current government. This sits well with the growing _____ (23) of the Union government into sectors where State governments have a primary _____ (24) to govern such as health, education and agriculture. Slogans such as 'one nation-one tax, one market and one ration' are again part of such _____ (25) to a narrative of a strong nation state rather than one of governance.

- (a) obdurate
- (b) deluge
- (c) incursions
- (d) vociferous
- (e) lofty

Q24. When NITI Aayog Member (Health), _____ (19) last week that it was the lack of _____ (20) that has led to poor management of the ongoing COVID-19 vaccination drive, States joined issue with this statement. Going by the response to this assertion from State governments, it was clear that this claim was not backed by good evidence. Not many could have _____ (21) the subtext of this claim for centralisation. It lies within, and _____ (22) contributes to, a narrative and practice of the growing centralisation of power by the current government. This sits well with the growing _____ (23) of the Union government into sectors where State governments have a primary _____ (24) to govern such as health, education and agriculture. Slogans such as 'one nation-one tax, one market and one ration' are again part of such _____ (25) to a narrative of a strong nation state rather than one of governance.

- (a) responsibility
- (b) impotency
- (c) minutes
- (d) restriction
- (e) combat

Q25. When NITI Aayog Member (Health), _____ (19) last week that it was the lack of _____ (20) that has led to poor management of the ongoing COVID-19 vaccination drive, States joined issue with this statement. Going by the response to this assertion from State governments, it was clear that this claim was not backed by good evidence. Not many could have _____ (21) the subtext of this claim for centralisation. It lies within, and _____ (22) contributes to, a narrative and practice of the growing centralisation of power by the current government. This sits well with the growing _____ (23) of the Union government into sectors where State governments have a primary _____ (24) to govern such as health, education and agriculture. Slogans such as 'one nation-one tax, one market and one ration' are again part of such _____ (25) to a narrative of a strong nation state rather than one of governance.

- (a) appeals
- (b) reoccur
- (c) renounce
- (d) relinquish
- (e) vicious

Directions (26-30): In each question certain words are interchanged, choose the correct pair of containing which should be interchanged so that the sentence thus formed is grammatically and contextually meaningful.

Q26. Though the vaccine has a **distribution [A]** against the two companies, there could be a **challenge [B]** in its **price advantage [C]** as it requires a **specialised cooling chain [D]** experts say.

- (a) [A]- [B]
- (b) [B]- [C]
- (c) [A]- [C]
- (d) [C]- [D]
- (e) No re-arrangement required.

Q27. India's largest bank **engagement [A]** called for **apprentices [B]** from candidates for **recently [C]** as **applications [D]** under the Apprentices Act, 1961.

- (a) [A] - [C]
- (b) [B]- [D]
- (c) [A] & [C] and [B] & [D]
- (d) [A] - [D]
- (e) No re-arrangement required

Q28. Brokerages, however, see only a/an **awaiting [A]** upside for the stock and they are **limited [B]** further **upgrading [C]** on the performance before **confirmation [D]** it.

- (a) [A] - [C]
- (b) [A]- [D]
- (c) [A]- [B]
- (d) [C]- [D]
- (e) [A] & [B] and [C] & [D]

Q29. Still, there are valid concerns that India is **staying away [A]** by **losing out [B]** as it won't be part of **global [C]** value-chains generated by RCEP and may miss out in attracting export-oriented foreign direct **investment. [D]**

- (a) [A]- [B]
- (b) [B]- [C]
- (c) [C]-[D]
- (d) [B]- [D]
- (e) No re-arrangement required.

Q30. India was the **deal** [A] absentee at the weekend **virtual** [B] signing of the world's **biggest** [C] free-trade **conspicuous** [D], the Regional Comprehensive Economic Partnership (RCEP).

- (a) [A]- [B]
- (b) [B]- [C]
- (c) [A]- [D]
- (d) [C]- [D]
- (e) No re-arrangement required

Directions (31-35): Bar graph given below shows number of books (Atlas + Dictionary) published by five different publishers and it also shows difference between number of Atlas books & Dictionary books published by these five publishers. Read the data carefully and answer the questions.

Note: Atlas books published by each publisher is more than that of Dictionary books.



Q31. If 80% & 40% of total Atlas books & Dictionary books published by C are sold, then find number of total books (Atlas books + Dictionary books) unsold by C?

- (a) 60
- (b) 68
- (c) 62
- (d) 56
- (e) 48

Q32. Total Atlas books published by A, B & E together are what percent (approx.) more than total Dictionary books published by B & C together?

- (a) 80%
- (b) 63%
- (c) 75%
- (d) 107%
- (e) 67%

Q33. If total cost of publishing each Atlas books & each Dictionary books is Rs. 75 and Rs. 80 for D, then find total costing of publishing all the books by D?

- (a) 11600 Rs.
- (b) 11575 Rs.
- (c) 12600 Rs.
- (d) 13600 Rs.
- (e) 11725 Rs.

Q34. Total Atlas books published by X to that of by D in the ratio of 11 : 8 and total Dictionary books published by X is 75% of total Atlas books published by E. Find total number books (Atlas books + Dictionary books) published by X?

- (a) 220
- (b) 200
- (c) 240
- (d) 180
- (e) 210

Q35. Find difference between total Dictionary books published by B, C & E together and total Atlas books published by B?

- (a) 120
- (b) 180
- (c) 140
- (d) 150
- (e) 130

Directions (36-40): In each of the following questions two equations are given. Solve these equations and give answer:

Q36.

(i) $x^2 + 9 = 45$

(ii) $y^3 = 216$

- (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

Q37.

(i) $x^2 + 5x + 6 = 0$

(ii) $y^2 + 4y + 3 = 0$

- (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

Q38.

(i). $x^2 - 10x + 21 = 0$

(ii). $y^2 - 11y + 24 = 0$

- (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

Q39.

(i) $2x^2 + x - 1 = 0$

(ii) $2y^2 + 3y + 1 = 0$

- (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

Q40.

(i). $x^2 + 13x + 42 = 0$

(ii). $y^2 + 16y + 63 = 0$

- (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

Q41. A truck can cover 288 km distance in 4 hours. If speed of truck increased by 15%, then find time (approximate) taken by truck to cover 330 km distance?

- (a) 4 hours
- (b) 11 hours
- (c) 9 hours
- (d) 7 hours
- (e) 16 hours

Q42. A started a business with capital of Rs. 24000. After 4 months B joined him with capital of Rs. 25000 and after 8 months from starting of business A left the business and C joined B with capital of Rs. 35000. If at the end of year total profit is Rs. 10640, then find the profit share of A & B together?

- (a) 7740 Rs.
- (b) 7640 Rs.
- (c) 7840 Rs.
- (d) 7940 Rs.
- (e) 7650 Rs.

Q43. The average of present age of A & B is 37 years and the age of C is 40% more than that of A. If eight years hence the ratio of age of A to C will be 3 : 4, then find the present age of B?

- (a) 34 years
- (b) 32 years
- (c) 42 years
- (d) 36 years
- (e) 40 years

Q44. Three people A, B & C working together can complete the work in 16 days. A can do $\frac{1}{4}$ th of work in the time in which B alone can do the same work, while C can do the same work alone in the time, which A and B together complete the same work. Find in how many days A and C together can complete the same work?

- (a) $18\frac{7}{9}$
- (b) $17\frac{5}{9}$
- (c) $17\frac{2}{3}$
- (d) $19\frac{7}{9}$
- (e) $17\frac{7}{9}$

Q45. The salary of Sumit is Rs. 50000 per month from which he spends 20% on rent, 10% of remaining on bills, 20% of further remaining on miscellaneous expenses. From the remaining amount, he gives some money to his wife and rest he invests in mutual funds in the ratio of 5 : 4. Amount spent on rent is how much less/more than amount invested in mutual funds.

- (a) 2800 Rs.
- (b) 2400 Rs.
- (c) 2600 Rs.
- (d) 3200 Rs.
- (e) 3000 Rs.

Directions (46-50): Find the wrong number in given number series.

Q46. 100, 119, 111, 128, 122, 137, 132

- (a) 100
- (b) 132
- (c) 137
- (d) 128
- (e) 111

Q47. 1, 2, 3, 10, 39, 194, 1175

- (a) 194
- (b) 10
- (c) 3
- (d) 2
- (e) 1175

Q48. 111, 134, 153, 170, 183, 195, 201

- (a) 111
- (b) 153
- (c) 195
- (d) 170
- (e) 183

Q49. 14, 8, 10, 18, 40, 105, 323

- (a) 14
- (b) 18
- (c) 40
- (d) 105
- (e) 323

Q50. 30, 15, 60, 10, 80, 6, 96

- (a) 30
- (b) 6
- (c) 96
- (d) 15
- (e) 10

Directions (51-55): Read the table carefully and answer the following question.

The table shows total number of bottle and lunchbox in four shops A, B, C, D.

Shops	Average of number of bottle and lunch box	Difference between total number of bottle and lunch box
A	69	54
B	60	56
C	68	8
D	73	26

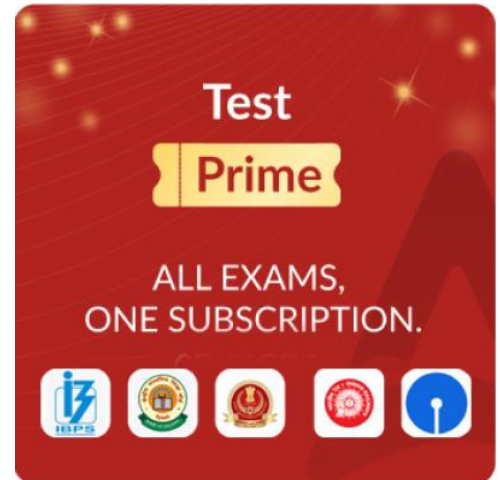
NOTE: Number of bottles is always more than that of number of lunch box.

Q51. If lunch box in shop X has $\frac{5}{8}$ th of lunchbox in shop C and bottle in shop X is twice the lunch box in shop X. find the average of bottle and lunch box in shop X.

- (a) 60
- (b) 70
- (c) 80
- (d) 90
- (e) 100

Q52. Find the ratio of lunchbox in shop C and D together and bottle in shop A and B together.

- (a) 46:31
- (b) 31:46
- (c) 31:23
- (d) 23:31
- (e) 46:25



Q53. Find the average of total number of bottle and lunch box sold by B, C and D together.

- (a) 136
- (b) 135
- (c) 134
- (d) 133
- (e) 245

Q54. Find bottle in shop C is how much percent more than lunchbox in shop D.

- (a) 11%
- (b) 10%
- (c) 30%
- (d) 20%
- (e) 22%

Q55. If the bottle and lunch box in shop M is the average of bottle and lunch box in shop C and D. Find the difference between bottle and lunchbox in shop M and bottle and lunchbox in shop B.

- (a) 61
- (b) 51
- (c) 41
- (d) 31
- (e) 21

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

- (i) There are three departments in a company – **Finance, Marketing and Production** & Total number of employees in the company is 2000.
- (ii) Total number of males in Production are four times more than total number of males in Finance and total number of males in Marketing are 20 more than total number of males in Finance.
- (iii) Total number of females in Finance are $66\frac{2}{3}\%$ of total number of males in same department and total number of females in Marketing and Production are equal.
- (iv) The ratio of total number of males in Finance to total number of female in Production is 3 : 5.

Q56. Find total employees in production department of the company.

- (a) 300
- (b) 500
- (c) 1200
- (d) 700
- (e) 1000

Q57. Find ratio of total number of males employees to total number of females employees in the company.

- (a) 5 : 3
- (b) 16 : 9
- (c) 8 : 7
- (d) 15 : 13
- (e) None of the above.

Q58. Total employees in Finance department of the company are what percent more or less than total employees in Marketing department of the company?

- (a) 30%
- (b) 35%
- (c) 32%
- (d) 40%
- (e) 44%

Q59. Total number of males in Finance and Production department together of the company are what percent of total number of females in Production and Marketing department together?

- (a) 180%
- (b) 150%
- (c) 120%
- (d) 100%
- (e) 240%

Q60. Total number of females in Finance & Marketing department together of the company are how much more or less than average number of males in Production & Marketing department?

- (a) 100
- (b) 130
- (c) 50
- (d) 80
- (e) 160

Q61. A man invested Rs. (P-5000) at X% p.a. on simple interest for three in scheme A and he also invested Rs. P at X% p.a. on compound interest for two years in scheme B. If amount invested in scheme A is 12.5% less than that of invested in scheme B and interest received from scheme A is Rs. 2424 more than that of from scheme B, then find integral value of X?

- (a) 15
- (b) 8
- (c) 10
- (d) 5
- (e) 12

Q62. Quantity of milk in two vessels A & B is 50% and 25% more than water respectively. Vessel A & B are mixed in an empty vessel C & the quantity of milk is 95 liters more than quantity of water in vessel C. If the ratio of total quantity of mixture in vessel A to that of B is 14 : 9, then find total quantity of water in vessel C?

- (a) 210 liters
- (b) 230 liters
- (c) 220 liters
- (d) 240 liters
- (e) 200 liters

Q63. The perimeter of a triangle is equal to perimeter of a rectangle. Length of rectangle is $\frac{3}{4}$ th of side of a square and length of rectangle is 50% more than its breadth. If difference between perimeter of square and that of rectangle is 36 meters, then find perimeter of triangle (in meters)?

- (a) 60
- (b) 48
- (c) 72
- (d) 80
- (e) 96

Q64. Length of train B is twice of length of train A and speed of train B is 90 km/hr. If train B cross a pole in 14.4 sec and train A in 12 sec while running in opposite direction respectively, then find the speed of train A (in Km/hr)?

- (a) 72
- (b) 64
- (c) 56
- (d) 80
- (e) 84

Q65. Cost price of article A is Rs 600 more than that of B and selling price of A is Rs 1200 more than that of B. If difference between profit earned on selling these two articles is $13\frac{1}{3}\%$ of the cost price of A then find profit earned on B if profit % earned on A is $33\frac{1}{3}\%$?

- (a) Rs 800
- (b) Rs 900
- (c) Rs 840
- (d) Rs 960
- (e) Rs 1000

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

Eight boxes i.e., M, N, O, P, Q, R, S and T are placed one above the other but not necessarily in the same order. Three boxes are placed between M and T. M is placed either at the topmost or bottom-most position. Box O is placed just above box N. Box S is placed just below box T. There are two boxes placed between R and S. Not more than two boxes placed between M and R. More than three boxes placed between O and P.

Q66. Which of the following box is placed third from the bottom?

- (a) S
- (b) Q
- (c) O
- (d) R

(e) None of these

Q67. How many boxes are placed between O and Q?

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

Q68. The number of boxes placed between P and S is same as the number of boxes placed between ____ and R.

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

Q69. The number of boxes placed above of the box O is same as the number of boxes placed below to the box?

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

Q70. Four of the following five are alike in a certain way and hence they form a group. Which one of the following does not belong to that group?

- (a) M and Q
- (b) P and T
- (c) R and S
- (d) Q and O
- (e) N and Q

Directions (71-73): Study the following information carefully and answer the given questions.

In a family of nine members there are five male members. M is the son of V. V is married to J. L is daughter-In-law of V. J has three children and two of them are married. U is the mother of B. W is son-in-law of J. S is aunt of B and she is unmarried. J is grandfather of A. B don't have any siblings.

Q71. How is B related to M?

- (a) Son
- (b) Daughter
- (c) Nephew
- (d) Niece
- (e) None of these

Q72. How is V related to B?

- (a) Mother
- (b) Maternal Grandmother
- (c) Paternal Grandmother
- (d) Aunt
- (e) Cannot be determined

Q73. How is A related to M?

- (a) Son
- (b) Daughter
- (c) Nephew
- (d) Niece
- (e) Cannot be determined

Q74. Which alphabet is 3rd from the left in the meaningful four-letter word formed from the first, fourth, seventh and ninth letter of the word SEPTEMBER? If more than one word is formed, then mark the answer as X and no meaningful word is formed then mark the answer as Z.

- (a) T
- (b) X
- (c) P
- (d) Z
- (e) B

Directions (75-78): Study the following information carefully and answer the questions given below-

Eight persons i.e., J, K, L, M, N, O, P and Q are seated around a circular table but not necessarily in the same order. Equal number of persons are facing inside and outside from the table.

J sits third to the right of M. There are two persons sit between M and P. K and N faces each other. L sits second to the right of N who sits immediate right of J. O is not an immediate neighbour of N. None of the immediate neighbours are facing the same directions.

Q75. How many persons sit between M and L?

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

Q76. Who among the following sits third to the left of J?

- (a) Q
- (b) K
- (c) L
- (d) M
- (e) None of these

Q77. Who among the following are immediate neighbours of both O and Q?

- (a) M
- (b) N
- (c) J
- (d) P
- (e) K

Q78. Who among the following faces outside?

- (a) M
- (b) N
- (c) L
- (d) K
- (e) J

Directions (79-81): Study the following information and answer the questions given below:

Dheeraj walks 8m towards west from point P to reach point Q. He takes a left turn from point Q and walks 10m to reach point R. He takes a right turn from point R and walks 12m to reach point S. He takes another right turn from point S and walks 6m to reach point T. He takes a left turn from point T and walks 8m to reach his home.

Q79. In which direction is point T with respect to point to Q?

- (a) North
- (b) South
- (c) South-east
- (d) South-west
- (e) North-east

Q80. What is the shortest distance between point S and Dheeraj's home?

- (a) 22m
- (b) 10m
- (c) 12m
- (d) 26m
- (e) None of these

Q81. What is the total distance travelled by Dheeraj 3m east from Point S to Point P?

- (a) 27m
- (b) 30m
- (c) 24m
- (d) 21m
- (e) 36m

Directions (82-85): Study the following information carefully and answer the questions given below:

Seven persons i.e. A, B, P, R, X, Y and Z were born on different days of the same week but not necessarily in the same order. Week starts from Monday.

Y was born just before P and just after A. X was born just after B. B was born before Wednesday. Z was born before of the day when R was born. P was not born on Sunday. Z was neither born on Monday nor on Saturday.

Q82. On which of the following day Z was born?

- (a) Tuesday
- (b) Wednesday
- (c) Thursday
- (d) Friday
- (e) Sunday

Q83. How many persons were born between X and P?

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

Q84. Who among the following person was born on Friday?

- (a) P
- (b) A
- (c) Y
- (d) Z
- (e) R

Q85. Which of the following pair of persons were born on Monday and Sunday respectively?

- (a) R and X
- (b) B and R
- (c) P and Z
- (d) X and B
- (e) None of these

Directions (86-89): In these questions, a relationship between different elements is shown in the statements. The statements are followed by two conclusions. Give answer

Q86.

Statement:

$P < Q = G < D \leq E < F > M$

Conclusion:

I. $M \geq Q$

II. $M < G$

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

Q87.

Statement:

$$M \geq K > A > S = H > D > B$$

Conclusion:

I. $A > B$

II. $K < D$

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

Q88.

Statement:

$$A \geq K; N < T; M \geq N; K \geq T$$

Conclusion:

I. $K \geq N$

II. $A > M$

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

Q89.

Statement:

$$J > T; R \leq N; T > R; N < M$$

Conclusion:

I. $R < M$

II. $J > M$

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

Directions (90-94): Study the information carefully and answer the questions given below.

Eight persons P, Q, R, S, T, U, V and W are living in a four-story building such as ground floor is numbered as 1, above it is floor 2 and so on till the topmost floor is numbered as 4. Each of the floors has 2 flats in it viz. flat-1 and flat-2. Flat-1 of floor-2 is immediately above flat-1 of floor-1 and immediately below flat-1 of floor-3 and so on. In the same way, flat-2 of floor-2 is immediately above flat-2 of floor-1 and immediately below flat-2 of floor-3 and so on. Flat-1 is in the west of flat-2.

V lives on an odd numbered flat of an even numbered floor. U lives just below V's floor but not in the same flat number. W lives just above the T's floor and in the same flat number. U lives below the S's floor. W neither lives on odd numbered floor nor an odd numbered flat. Q's flat is in north-east direction of R's flat. P lives above S's floor.

Q90. Who among the following lives just above V in the same flat number?

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

Q91. Who among the following lives on Flat-2 of the 3rd floor?

- (a) Q
- (b) S
- (c) T
- (d) U
- (e) None of these

Q92. How many floors are above the Q's floor?

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

Q93. Who among the following lives on same floor with U?

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

Q94. Which of the following statement is true about P?

- (a) P lives on the topmost floor
- (b) P lives below V
- (c) P lives in the same flat number as Q
- (d) More than two floors below P
- (e) Both (a) and (d)

Directions (95-99): In each question below some statements are given 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 and then decide which of the given conclusions logically follows from the given statements, disregarding commonly known facts. Give answer

Q95. Statements:

Only a few Red are Blue.

Only a few Blue is Pink.

All Pink is Yellow.

Conclusions:

I. All Yellow being Blue is a possibility.

II. Some Pink are Red.

(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.

Q96. Statements:

Only chips are coffee.

Some chips is cookies.

Only a few cookies is sugar.

Conclusions:

I. Some coffee is cookies

II. All cookies being sugar is a possibility

(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.

Q97. Statements:

Some Green are Olive.

All Olive is Black.

No Olive is White.

Conclusions:

I. Some Black is White.

II. Some Green are Black.

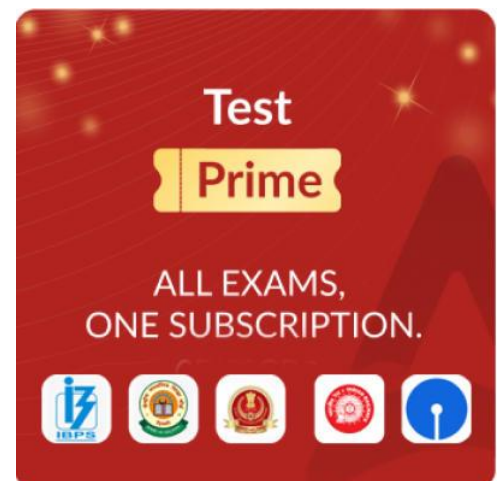
(a) If only conclusion I follows.

(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.



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Q98. Statements:

Some Apple are Papaya

No Apple is Mango

All Mango is Litchi

Conclusion:

I: Some Papaya are not Mango

II: Some Litchi being Apple is a possibility

(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.

Q99. Statements:

Only Box are Bottle

Some Box are Cup

No Cup is Plate

Conclusion:

I: Some Plate being Bottle is a possibility.

II: All Cup being Box is a possibility.

(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.

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

(a) LMR

(b) DEJ

(c) TUZ

(d) KLP

(e) FGL

Solutions

S1. Ans.(b)

Sol. The correct choice is option (b) with reference to the first paragraph which mentions, "Doing so is both morally right and in everyone's interest. Therefore, we need global multilateral action to increase the production of vaccines and accelerate the roll-out worldwide."

S2. Ans.(d)

Sol. The correct choice is option (d) with reference to the second paragraph which mentions, "The pandemic is still killing thousands of people every day and at the current pace, the whole world will not be vaccinated before 2023. Yet, a widely vaccinated world population is the only way to end the pandemic; otherwise, the multiplication of variants is likely to undermine the effectiveness of existing vaccines."

S3. Ans.(b)

Sol. Only (I) and (II) are correct with reference to the paragraph.

For statement (I), refer to the first and last paragraph in which it has been mentioned that how the international organizations such as EU and WHO have been making efforts to provide vaccine throughout the world

For (II), refer to the third paragraph which mentions, "Therefore, the EU welcomes the \$50 billion plan proposed by the International Monetary Fund in order to be able to vaccinate 40% of the world population in 2021 and 60% by mid-2022."

S4. Ans.(c)

Sol. The correct choice is option (c) which can be inferred from the last paragraph which mentions, "To achieve this goal, we need closely coordinated multilateral action. We must resist the threat posed by linking the provision of vaccines to political goals and "vaccine nationalism". The EU has rejected both since the beginning of the pandemic."

S5. Ans.(b)

Sol. The correct choice is option (b), which can be inferred from second paragraph which mentions, "Vaccination is also a prerequisite for lifting the restrictions that are holding back our economies and freedoms."

S6. Ans.(b)

Sol. The correct choice is option (b). "Undermine" means to make something weaker and "cripple" is similar word which means to seriously damage or harm somebody/something
dawdle means to go somewhere very slowly
supervene means occur as an interruption or change to an existing situation.
draconian means harsh and severe

S7. Ans.(a)

Sol. The correct choice is option (a). "Accelerate" means increase in rate, amount, or extent and "expedite" is synonym which means make (an action or process) happen sooner or be accomplished more quickly
noxious means harmful, poisonous, or very unpleasant.
fervent means having or displaying a passionate intensity.
fitful means active or occurring spasmodically or intermittently; not regular or steady.

S8. Ans.(d)

Sol. The correct choice is option (d). "Substantially" means to a great or significant extent and "paltry" is synonym which means very small or meagre.
flout means openly disregard
offensive means causing someone to feel resentful, upset, or annoyed.
flawed means having or characterized by a fundamental weakness or imperfection.

S9. Ans.(a)

Sol. The correct synonym of the word resist is withstand.
Resist- withstand the action or effect of.
Withstand- offer strong resistance or opposition to.

S10. Ans.(e)

Sol. The sentence is grammatically correct.

S11. Ans.(d)

Sol. we don't use two negatives ("unless" and "no") together.

S12. Ans.(c)

Sol. we will use "them" instead "him" because subject (candidates) is plural.
we use them for plural while him is used for singular.

S13. Ans.(c)

Sol. we will replace "are" with "is" because "lot of things" means a large number (plural) of things, hence you will use a plural noun unless the noun (love, feelings, water, sand etc.) is uncountable, then we use singular. Moreover, in the given sentence, 'contribution' is a mass noun or a collective noun, along with only singular verbs are used.

S14. Ans.(a)

Sol. Edifying means better, improvement or instruct.

S15. Ans.(c)

Sol. Debilitate means make someone very weak and infirm hence option (c) is correct.

S16. Ans.(c)

Sol. vigilance means the action or state of keeping careful watch for possible danger or difficulties.

S17. Ans.(b)

Sol. moribund means at the point of death or decline.

S18. Ans.(d)

Sol. inevitable means unavoidable.

S19. Ans.(b)

Sol. The above passage talks about the poor management of COVID vaccine drive by government. The correct word for the first blank will be 'asserted' which means 'state a fact or belief confidently and forcefully'

beguile means charm or enchant (someone), often in a deceptive way.

callous means showing or having an insensitive and cruel disregard for others.

cajole means persuade (someone) to do something by sustained coaxing or flattery.

ascetic means characterized by severe self-discipline and abstention from all forms of indulgence, typically for religious reasons.

S20. Ans.(d)

Sol. The above passage talks about the poor management of COVID vaccine drive by government. The correct word for the second blank will be 'centralization' which means 'the action or process of bringing activities together in one place'

fallout means the adverse results of a situation or action.

convivial means friendly, lively, and enjoyable.

rhetoric means the art of effective or persuasive speaking or writing

disparate means essentially different in kind; not able to be compared.

S21. Ans.(d)

Sol. The above passage talks about the poor management of COVID vaccine drive by government. The correct word for the third blank will be 'misread' which means 'read (a piece of text) wrongly.'

ubiquitous means present, appearing, or found everywhere.

travesty means a false, absurd, or distorted representation of something.

egregious means outstandingly bad; shocking.

promulgate means promote or make widely known (an idea or cause).

S22. Ans.(b)

Sol. The above passage talks about the poor management of COVID vaccine drive by government. The correct word for the fourth blank will be 'simultaneously' which means 'that something is happening at the same time or concurrently with something else.'

consecutively means one after another without interruption

embezzlement means theft or misappropriation of funds placed in one's trust

cognizant means having knowledge or awareness.

denigrate means criticize unfairly; disparage.

S23. Ans.(c)

Sol. The above passage talks about the poor management of COVID vaccine drive by government. The correct word for the fifth blank will be 'incursion' which means 'an invasion or attack, especially a sudden or brief one.'

obdurate means stubbornly refusing to change one's opinion or course of action.

deluge means a severe flood.

vociferous means expressing or characterized by vehement opinions; loud and forceful.

lofty means of imposing height.

S24. Ans.(a)

Sol. The above passage talks about the poor management of COVID vaccine drive by government

The correct word for the first blank will be 'responsibility' which means '

the state or fact of having a duty to deal with something or of having control over someone.'

S25. Ans.(a)

Sol. The above passage talks about the poor management of COVID vaccine drive by government. The correct word for the first blank will be 'appeals' which means 'make a serious, urgent, or heartfelt request'

reoccur means occur again or repeatedly.

renounce means formally declare one's abandonment of (a claim, right, or possession).

relinquish means voluntarily cease to keep or claim; give up.

vicious means deliberately cruel or violent.

S26. Ans.(c)

Sol. The given sentence will be grammatically and contextually meaningful if [A] and [C] are interchanged. Hence, option c is the correct choice.

Though the vaccine has a price advantage against the two companies, there could be a challenge in its distribution as it requires a specialised cooling chain, experts say.

S27. Ans.(c)

Sol. The given sentence will be grammatically and contextually correct if [A] & [C] and [B] & [D] are inter-changed. Hence option c is the correct choice.

India's largest bank recently called for applications from candidates for engagement as apprentices under the Apprentices Act, 1961.

S28. Ans.(e)

Sol. The given sentence will be grammatically and contextually correct if [A] & [B] and [C] & [D] are inter-changed. Hence option e is the correct choice.

Brokerages, however, see only a limited upside for the stock and they are awaiting further confirmation on the performance before upgrading it.

S29. Ans.(a)

Sol. The given sentence will be grammatically and contextually correct if [A] & [B] are inter-changed. Hence option (a) is the correct choice.

Still, there are valid concerns that India is losing out by staying away as it won't be part of global value-chains generated by RCEP and may miss out in attracting export-oriented foreign direct investment.

S30. Ans.(c)

Sol. The given sentence will be grammatically and contextually correct if [A] & [D] are inter-changed. Hence option c is the correct choice

India was the conspicuous absentee at the weekend virtual signing of the world's biggest free-trade deal, the Regional Comprehensive Economic Partnership (RCEP).

S31. Ans.(c)

Sol.

Let total Dictionary books published by A = x

So, total Atlas books published by A = x + 15

$$x + x + 15 = 155$$

$$x = 70$$

Let total Dictionary books published by B = y

So, total Atlas books published by B = y + 20

$$y + y + 20 = 170$$

$$y = 75$$

Let total Dictionary books published by C = z

So, total Atlas books published by C = z + 30

$$z + z + 30 = 170$$

$$z = 70$$

Let total Dictionary books published by D = a

So, total Atlas books published by D = a + 10

$$a + a + 10 = 150$$

$$a = 70$$

Let total Dictionary books published by E = b

So, total Atlas books published by D = b + 40

$$b + b + 40 = 200$$

$$b = 80$$

Publishers	Atlas books published	Dictionary books published
A	85	70
B	95	75
C	100	70
D	80	70
E	120	80

Total books (Atlas books + Dictionary books)

$$\text{unsold by C} = 100 \times \frac{20}{100} + 70 \times \frac{60}{100}$$

$$= 20 + 42 = 62$$

S32. Ans.(d)

Sol.

Let total Dictionary books published by A = x

So, total Atlas books published by A = x + 15

$$x + x + 15 = 155$$

$$x = 70$$

Let total Dictionary books published by B = y

So, total Atlas books published by B = y + 20

$$y + y + 20 = 170$$

$$y = 75$$

Let total Dictionary books published by C = z

So, total Atlas books published by C = z + 30

$$z + z + 30 = 170$$

$$z = 70$$

Let total Dictionary books published by D = a

So, total Atlas books published by D = a + 10

$$a + a + 10 = 150$$

$$a = 70$$

Let total Dictionary books published by E = b

So, total Atlas books published by D = b + 40

$$b + b + 40 = 200$$

$$b = 80$$

Publishers	Atlas books published	Dictionary books published
A	85	70
B	95	75
C	100	70
D	80	70
E	120	80

Total Atlas books published A, B & E = $(85 + 95 + 120) = 300$

Total Dictionary books published by B & C = $(75 + 70) = 145$

Required percentage = $\frac{300-145}{145} \times 100 = 106.89\% \approx 107\%$

S33. Ans.(a)

Sol.

Let total Dictionary books published by A = x

So, total Atlas books published by A = x + 15

$$x + x + 15 = 155$$

$$x = 70$$

Let total Dictionary books published by B = y

So, total Atlas books published by B = y + 20

$$y + y + 20 = 170$$

$$y = 75$$

Let total Dictionary books published by C = z

So, total Atlas books published by C = z + 30

$$z + z + 30 = 170$$

$$z = 70$$

Let total Dictionary books published by D = a

So, total Atlas books published by D = a + 10

$$a + a + 10 = 150$$

$$a = 70$$

Let total Dictionary books published by E = b

So, total Atlas books published by D = b + 40

$$b + b + 40 = 200$$

$$b = 80$$

Publishers	Atlas books published	Dictionary books published
A	85	70
B	95	75
C	100	70
D	80	70
E	120	80



Total costing of publishing all the books by D

$$= 80 \times 75 + 70 \times 80 = 11600 \text{ Rs.}$$

S34. Ans.(b)

Sol.

Let total Dictionary books published by A = x

So, total Atlas books published by A = x + 15

$$x + x + 15 = 155$$

$$x = 70$$

Let total Dictionary books published by B = y

So, total Atlas books published by B = y + 20

$$y + y + 20 = 170$$

$$y = 75$$

Let total Dictionary books published by C = z

So, total Atlas books published by C = z + 30

$$z + z + 30 = 170$$

$$z = 70$$

Let total Dictionary books published by D = a

So, total Atlas books published by D = a + 10

$$a + a + 10 = 150$$

$$a = 70$$

Let total Dictionary books published by E = b

So, total Atlas books published by D = b + 40

$$b + b + 40 = 200$$

$$b = 80$$

Publishers	Atlas books published	Dictionary books published
A	85	70
B	95	75
C	100	70
D	80	70
E	120	80

$$\text{Total Atlas books published by X} = 80 \times \frac{11}{8} = 110$$

$$\text{Total Dictionary books published by X} = 120 \times \frac{75}{100} = 90$$

$$\text{Total number of books (Atlas books + Dictionary books) published by X} = 110 + 90 = 200$$

S35. Ans.(e)

Sol.

Let total Dictionary books published by A = x

So, total Atlas books published by A = x + 15

$$x + x + 15 = 155$$

$$x = 70$$

Let total Dictionary books published by B = y

So, total Atlas books published by B = y + 20

$$y + y + 20 = 170$$

$$y = 75$$

Let total Dictionary books published by C = z

So, total Atlas books published by C = z + 30

$$z + z + 30 = 170$$

$$z = 70$$

Let total Dictionary books published by D = a

So, total Atlas books published by D = a + 10

$$a + a + 10 = 150$$

$$a = 70$$

Let total Dictionary books published by E = b

So, total Atlas books published by D = b + 40

$$b + b + 40 = 200$$

$$b = 80$$

Publishers	Atlas books published	Dictionary books published
A	85	70
B	95	75
C	100	70
D	80	70
E	120	80

Required difference = $(75 + 70 + 80) - 95 = 130$

S36. Ans.(c)

Sol.

$$(i) x^2 = 45 - 9$$

$$x = \pm 6$$

$$(ii) y = + 6$$

So, $x \leq y$

S37. Ans.(e)

Sol.

$$(i) x^2 + 3x + 2x + 6 = 0$$

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

$$x = -2, -3$$

$$(ii) y^2 + y + 3y + 3 = 0$$

$$y(y + 1) + 3(y + 1) = 0$$

$$y = -1, -3$$

So, no relation can be established between x and y

S38. Ans.(e)

Sol.

$$(i). x^2 - 10x + 21 = 0$$

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

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

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

$$x = 7, 3$$

$$(ii). y^2 - 11y + 24 = 0$$

$$y^2 - 8y - 3y + 24 = 0$$

$$y(y - 8) - 3(y - 8) = 0$$

$$(y - 3)(y - 8) = 0$$

$$y = 3, 8$$

So, no relation can be established between x and y

S39. Ans.(e)

Sol.

$$(i) 2x^2 + x - 1 = 0$$

$$2x^2 + 2x - x - 1 = 0$$

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

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

$$(ii) 2y^2 + 3y + 1 = 0$$

$$2y^2 + 2y + y + 1 = 0$$

$$2y(y + 1) + 1(y + 1) = 0$$

$$y = -1, -\frac{1}{2}$$

So, no relation can be established between x and y

S40. Ans.(a)

Sol.

$$(i). x^2 + 13x + 42 = 0$$

$$x^2 + 7x + 6x + 42 = 0$$

$$x(x+7) + 6(x+7) = 0$$

$$(x+6)(x+7) = 0$$

$$x = -6, -7$$

$$(ii). y^2 + 16y + 63 = 0$$

$$y^2 + 9y + 7y + 63 = 0$$

$$y(y+9) + 7(y+9) = 0$$

$$y = -7, -9$$

So, $x \geq y$

S41. Ans.(a)

Sol.

$$\text{Speed of truck} = \frac{288}{4} = 72 \text{ km/hr}$$

$$\text{Required time} = \frac{330}{72 \times \frac{115}{100}} = 3.985 \approx 4 \text{ hours}$$

S42. Ans.(c)

Sol.

Profit ratio of A, B & C respectively

$$= (24000 \times 8) : (25000 \times 8) : (35000 \times 4)$$

$$= 48 : 50 : 35$$

$$\text{Given, } (48 + 50 + 35) = 10640$$

$$133 = 10640$$

$$1 = 80 \text{ Rs.}$$

$$\text{So, profit share of A \& B} = (48 + 50) \times 80 = 7840 \text{ Rs.}$$

S43. Ans.(a)

Sol.

$$\text{Sum of present age of A \& B} = 37 \times 2 = 74 \text{ years}$$

$$\text{Let present age of A} = 5x \text{ years}$$

$$\text{So, present age of C} = 5x \times \frac{140}{100} = 7x \text{ years}$$

ATQ -

$$\frac{5x+8}{7x+8} = \frac{3}{4}$$

$$x = 8 \text{ years}$$

$$\text{So, present age of B} = 74 - 5 \times 8 = 34 \text{ years}$$

S44. Ans.(e)
Sol.

Let A can do work in n days

So, B can do the work = $4n$ days

And C can do the work = $\frac{n \times 4n}{4n+n} = \frac{4n}{5}$ days

Given —

All three (A, B & C) together can complete work in = 16 days

So,

$$\frac{1}{n} + \frac{1}{4n} + \frac{5}{4n} = \frac{1}{16}$$

$$\frac{4+1+5}{4n} = \frac{1}{16}$$

$n = 40$ days

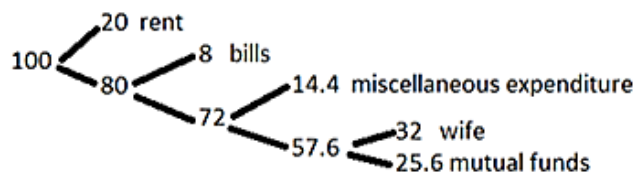
B can complete work in $4n = 4 \times 40 = 160$ days

Time taken by C to complete work = $\frac{4n}{5}$ days = $\frac{4 \times 40}{5} = 32$ days

A and C can do work in = $\frac{40 \times 32}{40+32} = 17\frac{7}{9}$

S45. Ans.(a)
Sol.

Let salary of Sumit be Rs. 100 (%)



Amount spent on rent = $\frac{20}{100} \times 50000 = \text{Rs. } 10000$

Amount invested in mutual funds = $\frac{25.6}{100} \times 50000 = \text{Rs. } 12800$

Required difference = $12800 - 10000 = 2800$ Rs

S46. Ans.(b)
Sol.

Wrong number = 132

Pattern of series —

$$100 + 19 = 119$$

$$119 - 8 = 111$$

$$111 + 17 = 128$$

$$128 - 6 = 122$$

$$122 + 15 = 137$$

$$137 - 4 = 133$$

S47. Ans.(a)
Sol.

Wrong number = 194

Pattern of series —

$$1 \times 1 + 1 = 2$$

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

$$3 \times 3 + 1 = 10$$

$$10 \times 4 - 1 = 39$$

$$39 \times 5 + 1 = 196$$

$$196 \times 6 - 1 = 1175$$

S48. Ans.(c)

Sol.

Wrong number = 195

Pattern of series –

$$111 + 23 = 134$$

$$134 + 19 = 153$$

$$153 + 17 = 170$$

$$170 + 13 = 183$$

$$183 + 11 = 194$$

$$194 + 7 = 201$$

S49. Ans.(e)

Sol.

Wrong number = 323

The pattern of the series is –

$$14 \times 0.5 + 1 = 8$$

$$8 \times 1 + 2 = 10$$

$$10 \times 1.5 + 3 = 18$$

$$18 \times 2 + 4 = 40$$

$$40 \times 2.5 + 5 = 105$$

$$105 \times 3 + 6 = 321$$

S50. Ans.(b)

Sol.

Wrong number = 6

The pattern of the series is –

$$30 \div 2 = 15$$

$$15 \times 4 = 60$$

$$60 \div 6 = 10$$

$$10 \times 8 = 80$$

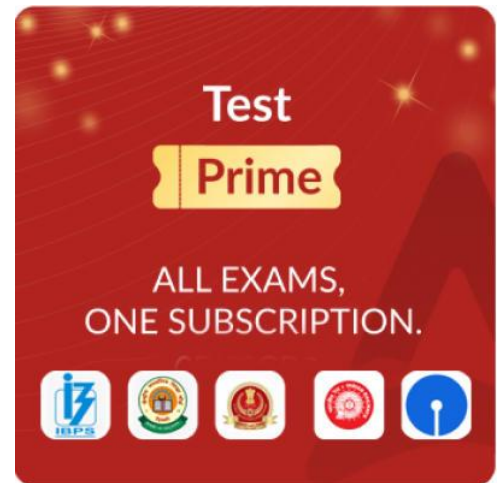
$$80 \div 10 = 8$$

$$8 \times 12 = 96$$

S51. Ans.(a)

Sol.

Shops	Total number of bottle and lunchbox	Total number of bottles	Total number of lunchbox
A	138	96	42
B	120	88	32
C	136	72	64
D	146	86	60



$$\text{Lunchbox in shop X} = \frac{5}{8} \times 64 = 40$$

$$\text{Bottle in shop X} = 2 \times 40 = 80$$

$$\text{Average} = \frac{80+40}{2} = 60$$

S52. Ans.(b)

Sol.

Shops	Total number of bottle and lunchbox	Total number of bottles	Total number of lunchbox
A	138	96	42
B	120	88	32
C	136	72	64
D	146	86	60

$$\text{Lunch box in shop C and D} = 124$$

$$\text{Bottles in shop A and B} = 96+88=184$$

$$\text{Required ratio} = 124:184=31:46$$

S53. Ans.(c)

Sol.

Shops	Total number of bottle and lunchbox	Total number of bottles	Total number of lunchbox
A	138	96	42
B	120	88	32
C	136	72	64
D	146	86	60

$$\text{Required average} = \frac{120+136+146}{3} = 134$$

S54. Ans.(d)

Sol.

Shops	Total number of bottle and lunchbox	Total number of bottles	Total number of lunchbox
A	138	96	42
B	120	88	32
C	136	72	64
D	146	86	60

Bottle in shop C= 72

Lunch box in shop D= 60

$$\% \text{difference} = \frac{72-60}{60} \times 100 = 20\%$$

S55. Ans.(e)

Sol.

Shops	Total number of bottle and lunchbox	Total number of bottles	Total number of lunchbox
A	138	96	42
B	120	88	32
C	136	72	64
D	146	86	60

Bottle and lunch box in shop M= $\frac{136+146}{2} = 141$

Bottle and lunchbox in shop B= 120

Required difference= 141-120=21

S56. Ans.(c)

Sol.

Let total number of males and females in finance be $30n$ & $20n$.

So, total number of males in Production = $5 \times 30n = 150n$

And total number of males in Marketing = $30n + 20$

Now, total number of females in Production = $30n \times \frac{5}{3} = 50n$

So, total number of females in Marketing = $50n$

(given, total number of females in Marketing and Production are equal)

ATQ,

$$30n + 150n + 30n + 20 + 50n + 50n + 20n = 2000$$

$$330n + 20 = 2000$$

$$\Rightarrow n = \frac{1980}{330}$$

$$n = 6$$

Department	Male	Female
Finance	180	120
Production	900	300
Marketing	200	300
Total	1280	720

Required number of employees = $900 + 300 = 1200$

S57. Ans.(b)

Sol.

Let total number of males and females in finance be $30n$ & $20n$.

So, total number of males in Production = $5 \times 30n = 150n$

And total number of males in Marketing = $30n + 20$

Now, total number of females in Production = $30n \times \frac{5}{3} = 50n$

So, total number of females in Marketing = $50n$

(given, total number of females in Marketing and Production are equal)

ATQ,

$$30n + 150n + 30n + 20 + 50n + 50n + 20n = 2000$$

$$330n + 20 = 2000$$

$$\Rightarrow n = \frac{1980}{330}$$

$$n = 6$$

Department	Male	Female
Finance	180	120
Production	900	300
Marketing	200	300
Total	1280	720

$$\text{Required ratio} = \frac{1280}{720} = \frac{16}{9} = 16 : 9$$

S58. Ans.(d)

Sol.

Let total number of males and females in finance be $30n$ & $20n$.

So, total number of males in Production = $5 \times 30n = 150n$

And total number of males in Marketing = $30n + 20$

Now, total number of females in Production = $30n \times \frac{5}{3} = 50n$

So, total number of females in Marketing = $50n$

(given, total number of females in Marketing and Production are equal)

ATQ,

$$30n + 150n + 30n + 20 + 50n + 50n + 20n = 2000$$

$$330n + 20 = 2000$$

$$\Rightarrow n = \frac{1980}{330}$$

$$n = 6$$

Department	Male	Female
Finance	180	120
Production	900	300
Marketing	200	300
Total	1280	720

Total employees in Finance department of the company = $180 + 120 = 300$

Total employees in Marketing department of the company = $200 + 300 = 500$

$$\text{Required \%} = \frac{500-300}{500} \times 100 = \frac{200}{5} \% = 40\%$$

S59. Ans.(a)

Sol.

Let total number of males and females in finance be $30n$ & $20n$.

So, total number of males in Production = $5 \times 30n = 150n$

And total number of males in Marketing = $30n + 20$

Now, total number of females in Production = $30n \times \frac{5}{3} = 50n$

So, total number of females in Marketing = $50n$

(given, total number of females in Marketing and Production are equal)

ATQ,

$$30n + 150n + 30n + 20 + 50n + 50n + 20n = 2000$$

$$330n + 20 = 2000$$

$$\Rightarrow n = \frac{1980}{330}$$

$$n = 6$$

Department	Male	Female
Finance	180	120
Production	900	300
Marketing	200	300
Total	1280	720

$$\text{Required \%} = \frac{(180+900)}{(300+300)} \times 100$$

$$= \frac{1080}{600} \times 100$$

$$= 180\%$$

S60. Ans.(b)

Sol.

Let total number of males and females in finance be $30n$ & $20n$.

So, total number of males in Production = $5 \times 30n = 150n$

And total number of males in Marketing = $30n + 20$

Now, total number of females in Production = $30n \times \frac{5}{3} = 50n$

So, total number of females in Marketing = $50n$

(given, total number of females in Marketing and Production are equal)

ATQ,

$$30n + 150n + 30n + 20 + 50n + 50n + 20n = 2000$$

$$330n + 20 = 2000$$

$$\Rightarrow n = \frac{1980}{330}$$

$$n = 6$$

Department	Male	Female
Finance	180	120
Production	900	300
Marketing	200	300
Total	1280	720

Total number of females in Finance & Marketing department together of the company = $120 + 300 = 420$

Average number of males in Production & Marketing

$$\text{department of the company} = \frac{900+200}{2} = 550$$

$$\text{Required difference} = 550 - 420 = 130.$$

S61. Ans.(e)

Sol.

ATQ,

$$\frac{P-5000}{P} = \frac{100-12.5}{100}$$

$$\frac{P-5000}{P} = \frac{7}{8}$$

$$8P - 40000 = 7P$$

$$P = \text{Rs } 40000$$

And,

$$\frac{(40000-5000) \times X \times 3}{100} - \left[40000 \left(1 + \frac{X}{100} \right)^2 - 40000 \right] = 2424$$

$$\Rightarrow 1050X - \left[40000 \left(\frac{10000+X^2+200X-10000}{10000} \right) \right] = 2424$$

$$\Rightarrow 1050X - [4X^2 + 800X] = 2424$$

$$\Rightarrow 1050X - 4X^2 - 800X = 2424$$

$$250X - 4X^2 = 2424$$

$$\Rightarrow 4X^2 - 250X + 2424 = 0$$

$$2X^2 - 125X + 1212 = 0$$

$$2X^2 - 101X - 24X + 1212 = 0$$

$$X(2X - 101) - 12(2X - 101) = 0$$

$$(2X - 101)(X - 12) = 0$$

$$\Rightarrow X = 12, \frac{101}{2}$$

$$\text{So, } X = 12$$

S62. Ans.(d)

Sol.

Let total quantity of mixture in vessel A to that of B be '140x liters' & '90x liters' respectively.

ATQ,

$$\left[140x \times \frac{3}{5} + 90x \times \frac{5}{9} \right] - \left[140x \times \frac{2}{5} + 90x \times \frac{4}{9} \right] = 95$$

$$84x + 50x - 56x - 40x = 95$$

$$38x = 95$$

$$x = 2.5$$

$$\text{Required quantity of water} = \left[140x \times \frac{2}{5} + 90x \times \frac{4}{9} \right]$$

$$= 56x + 40x$$

$$= 96x$$

$$= 240 \text{ liters}$$

S63. Ans.(a)

Sol.

Let side of square be '4a' meters

$$\text{So, length of rectangle} = 4a \times \frac{3}{4} = 3a \text{ meters}$$

$$\text{And, breadth of rectangle} = 3a \times \frac{100}{150} = 2a \text{ meters}$$

ATQ -

$$4 \times 4a - 2(3a + 2a) = 36$$

$$6a = 36$$

$$a = 6 \text{ meters}$$

$$\text{Perimeter of triangle} = \text{perimeter of rectangle} = 2(3 \times 6 + 2 \times 6) = 60 \text{ meters}$$

S64. Ans.(a)

Sol.

Let length of train B = l meters

So, length of train A = $\frac{l}{2}$ meters

ATQ -

$$\frac{l}{14.4} = 90 \times \frac{5}{18}$$

$$l = 360 \text{ meters}$$

Length of train A = 180 meters

Let speed of train A = s km/hr

$$(s + 90) \times \frac{5}{18} = \frac{180 + 360}{12}$$

$$10s + 900 = 1620$$

$$10s = 720$$

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

S65. Ans.(b)

Sol.

Let the cost price and selling price of B be Rs x and Rs y respectively

CP of A = $(x + 600)$

And SP of A = $(y + 1200)$

$$\text{Difference of their profits} = (y + 1200 - x - 600) - (y - x) = 600$$

ATQ

$$(x + 600) \times \frac{40}{300} = 600$$

$$x = 3900$$

$$\text{Profit earned of B} = 4500 \times \frac{1}{3} - 600 = \text{Rs } 900$$

S66. Ans.(a)

Sol. From the given statements, three boxes are placed between M and T. M is placed either at the top most or bottom most position. Here we get 2 possibilities i.e., Case 1 and Case 2. Box S is placed just below to the box T. There are two boxes placed between R and S.

Case 1	Case 2
Boxes	Boxes
M	
	R
R	
	T
T	S
S	
	M

From the given statements, not more than two boxes placed between M and R. Here case 2 is ruled out now. Box O is placed just above to the box N. More than three boxes placed between O and P. So, the final arrangement will be like this-

Boxes
M
P
R
Q
T
S
O
N

S67. Ans.(d)

Sol. From the given statements, three boxes are placed between M and T. M is placed either at the top most or bottom most position. Here we get 2 possibilities i.e., Case 1 and Case 2. Box S is placed just below to the box T. There are two boxes placed between R and S.

Case 1	Case 2
Boxes	Boxes
M	
	R
R	
	T
T	S
S	
	M

From the given statements, not more than two boxes placed between M and R. Here case 2 is ruled out now. Box O is placed just above to the box N. More than three boxes placed between O and P. So, the final arrangement will be like this-

Boxes
M
P
R
Q
T
S
O
N

S68. Ans.(e)

Sol. From the given statements, three boxes are placed between M and T. M is placed either at the top most or bottom most position. Here we get 2 possibilities i.e., Case 1 and Case 2. Box S is placed just below to the box T. There are two boxes placed between R and S.

Case 1	Case 2
Boxes	Boxes
M	
	R
R	
	T
T	S
S	
	M

From the given statements, not more than two boxes placed between M and R. Here case 2 is ruled out now. Box O is placed just above to the box N. More than three boxes placed between O and P. So, the final arrangement will be like this-

Boxes
M
P
R
Q
T
S
O
N

S69. Ans.(c)

Sol. From the given statements, three boxes are placed between M and T. M is placed either at the top most or bottom most position. Here we get 2 possibilities i.e., Case 1 and Case 2. Box S is placed just below to the box T. There are two boxes placed between R and S.

Case 1	Case 2
Boxes	Boxes
M	
	R
R	
	T
T	S
S	
	M

From the given statements, not more than two boxes placed between M and R. Here case 2 is ruled out now. Box O is placed just above to the box N. More than three boxes placed between O and P. So, the final arrangement will be like this-

Boxes
M
P
R
Q
T
S
O
N

S70. Ans.(e)

Sol. From the given statements, three boxes are placed between M and T. M is placed either at the top most or bottom most position. Here we get 2 possibilities i.e., Case 1 and Case 2. Box S is placed just below to the box T. There are two boxes placed between R and S.

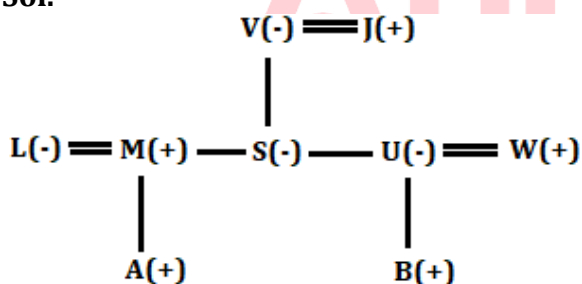
Case 1	Case 2
Boxes	Boxes
M	
	R
R	
	T
T	S
S	
	M

From the given statements, not more than two boxes placed between M and R. Here case 2 is ruled out now. Box O is placed just above to the box N. More than three boxes placed between O and P. So, the final arrangement will be like this-

Boxes
M
P
R
Q
T
S
O
N

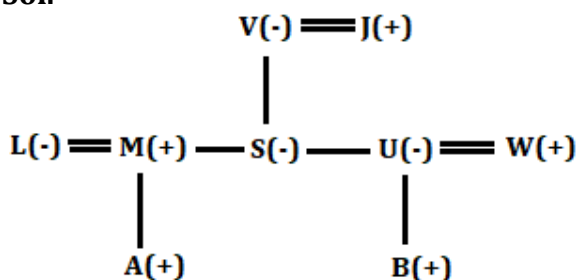
S71. Ans.(c)

Sol.



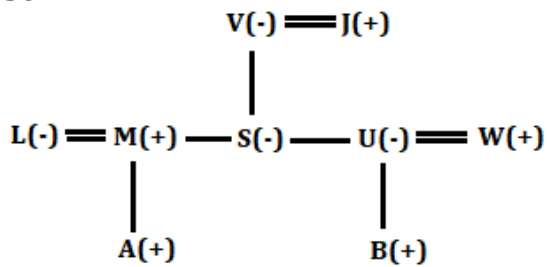
S72. Ans.(b)

Sol.



S73. Ans.(a)

Sol.

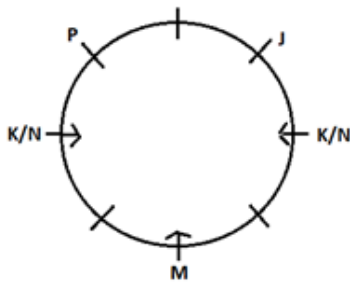


S74. Ans.(d)

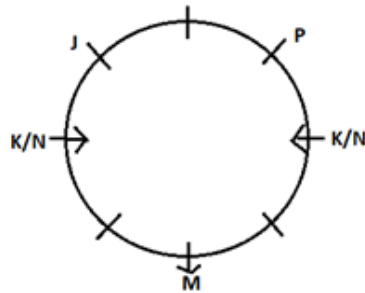
S75. Ans.(c)

Sol. From the given statements, J sits third to the right of M. There are two persons sitting between M and P. K and N faces each other. Here we get 2 possible cases – Case 1 and Case 2.

Case 1

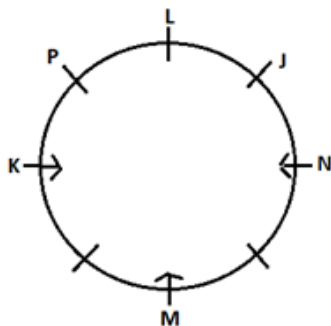


Case 2

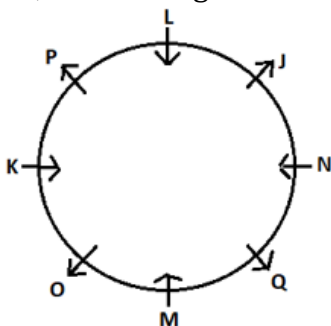


L is second to the right of N who sits immediate right of J. Hence Case 2 gets cancelled.

Case 1



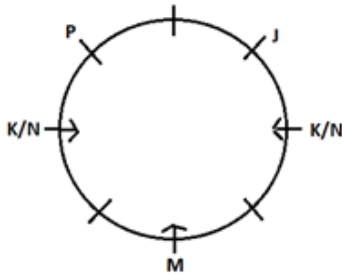
O is not an immediate neighbour of N. None of the immediate neighbours are facing the same directions. So, final arrangement will be-



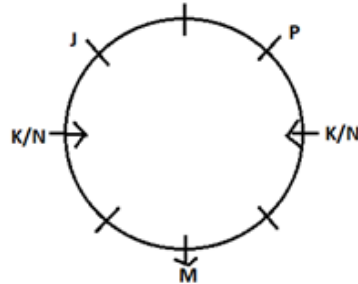
S76. Ans.(b)

Sol. From the given statements, J sits third to the right of M. There are two persons sitting between M and P. K and N faces each other. Here we get 2 possible cases – Case 1 and Case 2.

Case 1

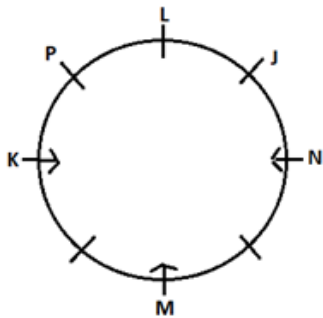


Case 2

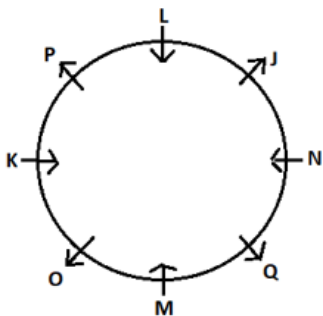


L is second to the right of N who sits immediate right of J. Hence Case 2 gets cancelled.

Case 1



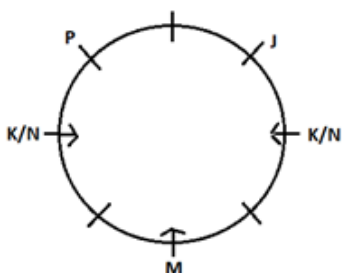
O is not an immediate neighbour of N. None of the immediate neighbours are facing the same directions. So, final arrangement will be-



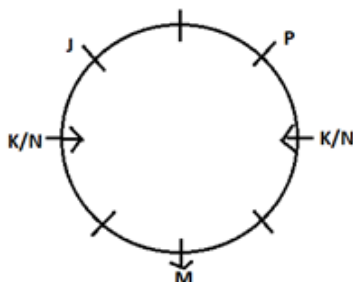
S77. Ans.(a)

Sol. From the given statements, J sits third to the right of M. There are two persons sitting between M and P. K and N faces each other. Here we get 2 possible cases – Case 1 and Case 2.

Case 1

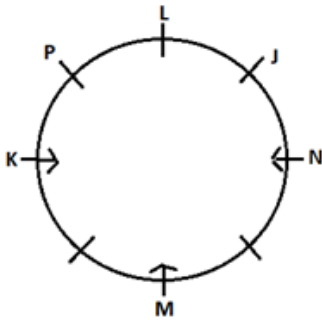


Case 2

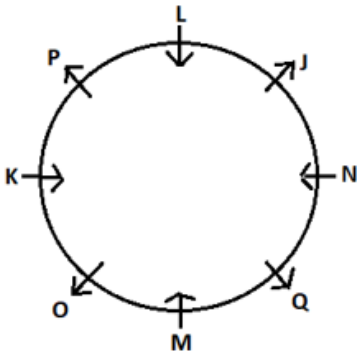


L is second to the right of N who sits immediate right of J. Hence Case 2 gets cancelled.

Case 1



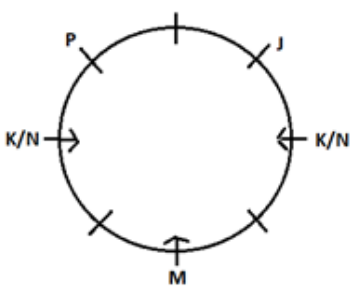
O is not an immediate neighbour of N. None of the immediate neighbours are facing the same directions. So, final arrangement will be-



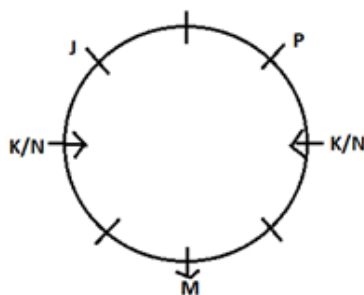
S78. Ans.(e)

Sol. From the given statements, J sits third to the right of M. There are two persons sitting between M and P. K and N faces each other. Here we get 2 possible cases – Case 1 and Case 2.

Case 1

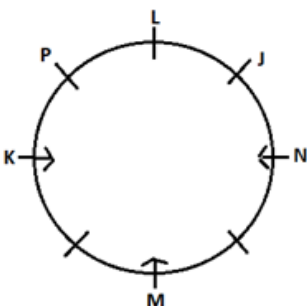


Case 2

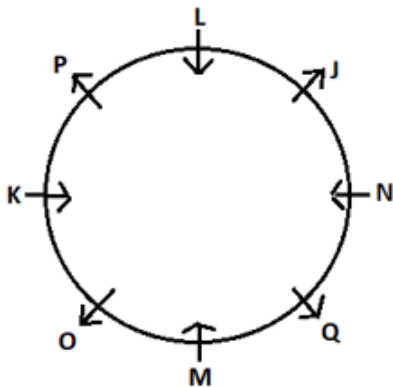


L is second to the right of N who sits immediate right of J. Hence Case 2 gets cancelled.

Case 1

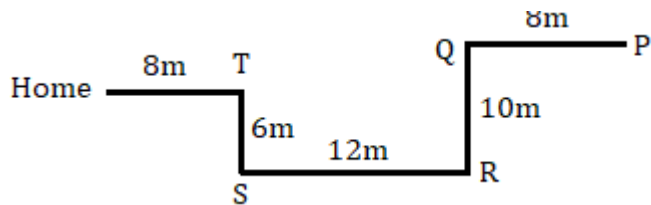


O is not an immediate neighbour of N. None of the immediate neighbours are facing the same directions. So, final arrangement will be-



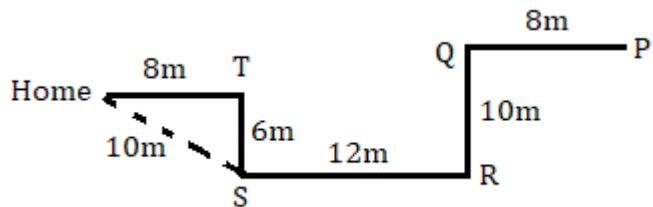
S79. Ans.(d)

Sol.



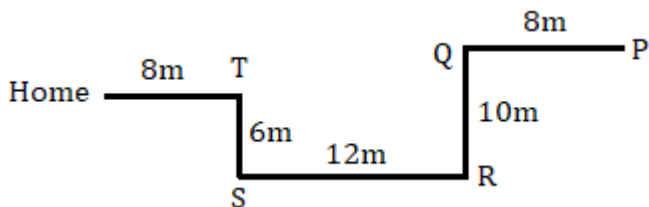
S80. Ans.(b)

Sol.



S81. Ans.(a)

Sol.



S82. Ans.(b)

Sol. From the given statements, B was born before Wednesday. Here we get 2 possibilities i.e., Case 1 and Case 2. X was born just after B. P was not born on Sunday. Y was born just before P and just after A. Here one more case was added Case 1a.

Days	Case 1	Case 1a	Case 2
	Persons	Persons	Persons
Monday	B	B	
Tuesday	X	X	B
Wednesday	A		X
Thursday	Y	A	A
Friday	P	Y	Y
Saturday		P	P
Sunday			

Z was born before of the day when R was born. Z was neither born on Monday nor on Saturday. From these conditions Case 1 and Case 2 are ruled out now. So, the final arrangements will be like this-

Days	Persons
Monday	B
Tuesday	X
Wednesday	Z
Thursday	A
Friday	Y
Saturday	P
Sunday	R

S83. Ans.(d)

Sol. From the given statements, B was born before Wednesday. Here we get 2 possibilities i.e., Case 1 and Case 2. X was born just after B. P was not born on Sunday. Y was born just before P and just after A. Here one more case was added Case 1a.

Days	Case 1	Case 1a	Case 2
	Persons	Persons	Persons
Monday	B	B	
Tuesday	X	X	B
Wednesday	A		X
Thursday	Y	A	A
Friday	P	Y	Y
Saturday		P	P
Sunday			

Z was born before of the day when R was born. Z was neither born on Monday nor on Saturday. From these conditions Case 1 and Case 2 are ruled out now. So, the final arrangements will be like this-

Days	Persons
Monday	B
Tuesday	X
Wednesday	Z
Thursday	A
Friday	Y
Saturday	P
Sunday	R

S84. Ans.(c)

Sol. From the given statements, B was born before Wednesday. Here we get 2 possibilities i.e., Case 1 and Case 2. X was born just after B. P was not born on Sunday. Y was born just before P and just after A. Here one more case was added Case 1a.

Days	Case 1	Case 1a	Case 2
	Persons	Persons	Persons
Monday	B	B	
Tuesday	X	X	B
Wednesday	A		X
Thursday	Y	A	A
Friday	P	Y	Y
Saturday		P	P
Sunday			

Z was born before of the day when R was born. Z was neither born on Monday nor on Saturday. From these conditions Case 1 and Case 2 are ruled out now. So, the final arrangements will be like this-

Days	Persons
Monday	B
Tuesday	X
Wednesday	Z
Thursday	A
Friday	Y
Saturday	P
Sunday	R

S85. Ans.(b)

Sol. From the given statements, B was born before Wednesday. Here we get 2 possibilities i.e., Case 1 and Case 2. X was born just after B. P was not born on Sunday. Y was born just before P and just after A. Here one more case was added Case 1a.

Days	Case 1	Case 1a	Case 2
	Persons	Persons	Persons
Monday	B	B	
Tuesday	X	X	B
Wednesday	A		X
Thursday	Y	A	A
Friday	P	Y	Y
Saturday		P	P
Sunday			

Z was born before of the day when R was born. Z was neither born on Monday nor on Saturday. From these conditions Case 1 and Case 2 are ruled out now. So, the final arrangements will be like this-

Days	Persons
Monday	B
Tuesday	X
Wednesday	Z
Thursday	A
Friday	Y
Saturday	P
Sunday	R

S86. Ans.(d)

Sol.

I. $M \geq Q$ (False)

II. $M < G$ (False)

S87. Ans.(b)

Sol.

I. $A > B$ (True)

II. $K < D$ (False)

S88. Ans.(c)

Sol.

I. $K \geq N$ (False)

II. $A > M$ (False)

S89. Ans.(b)

Sol.

I. $R < M$ (True)

II. $J > M$ (False)

S90. Ans.(d)

Sol. V lives on an odd numbered flat of an even numbered floor. There are two possibilities. U lives just below V's floor but not in the same flat number. W lives just above the T's floor and in the same flat number. W neither lives on odd numbered floor nor an odd numbered flat.

	Case-1		Case-2	
Floors	Flat-1	Flat-2	Flat-1	Flat-2
4		W	V	
3		T		U
2	V			W
1		U		T

Q's flat is in north-east direction of R's flat. U lives below the S's floor. P lives above S's floor. From this condition case-2 will be eliminated. The final arrangement is-

Floors	Flat-1	Flat-2
4	P	W
3	S	T
2	V	Q
1	R	U

S91. Ans.(c)

Sol. V lives on an odd numbered flat of an even numbered floor. There are two possibilities. U lives just below V's floor but not in the same flat number. W lives just above the T's floor and in the same flat number. W neither lives on odd numbered floor nor an odd numbered flat.

	Case-1		Case-2	
Floors	Flat-1	Flat-2	Flat-1	Flat-2
4		W	V	
3		T		U
2	V			W
1		U		T

Q's flat is in north-east direction of R's flat. U lives below the S's floor. P lives above S's floor. From this condition case-2 will be eliminated. The final arrangement is-

Floors	Flat-1	Flat-2
4	P	W
3	S	T
2	V	Q
1	R	U

S92. Ans.(d)

Sol. V lives on an odd numbered flat of an even numbered floor. There are two possibilities. U lives just below V's floor but not in the same flat number. W lives just above the T's floor and in the same flat number. W neither lives on odd numbered floor nor an odd numbered flat.

	Case-1		Case-2	
Floors	Flat-1	Flat-2	Flat-1	Flat-2
4		W	V	
3		T		U
2	V			W
1		U		T

Q's flat is in north-east direction of R's flat. U lives below the S's floor. P lives above S's floor. From this condition case-2 will be eliminated. The final arrangement is-

Floors	Flat-1	Flat-2
4	P	W
3	S	T
2	V	Q
1	R	U

S93. Ans.(a)

Sol. V lives on an odd numbered flat of an even numbered floor. There are two possibilities. U lives just below V's floor but not in the same flat number. W lives just above the T's floor and in the same flat number. W neither lives on odd numbered floor nor an odd numbered flat.

	Case-1		Case-2	
Floors	Flat-1	Flat-2	Flat-1	Flat-2
4		W	V	
3		T		U
2	V			W
1		U		T

Q's flat is in north-east direction of R's flat. U lives below the S's floor. P lives above S's floor. From this condition case-2 will be eliminated. The final arrangement is-

Floors	Flat-1	Flat-2
4	P	W
3	S	T
2	V	Q
1	R	U

S94. Ans.(e)

Sol. V lives on an odd numbered flat of an even numbered floor. There are two possibilities. U lives just below V's floor but not in the same flat number. W lives just above the T's floor and in the same flat number. W neither lives on odd numbered floor nor an odd numbered flat.

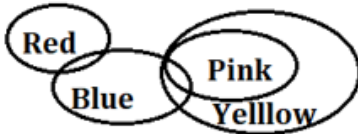
	Case-1		Case-2	
Floors	Flat-1	Flat-2	Flat-1	Flat-2
4		W	V	
3		T		U
2	V			W
1		U		T

Q's flat is in north-east direction of R's flat. U lives below the S's floor. P lives above S's floor. From this condition case-2 will be eliminated. The final arrangement is-

Floors	Flat-1	Flat-2
4	P	W
3	S	T
2	V	Q
1	R	U

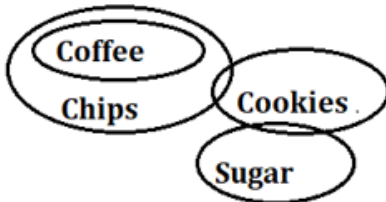
S95. Ans.(a)

Sol.



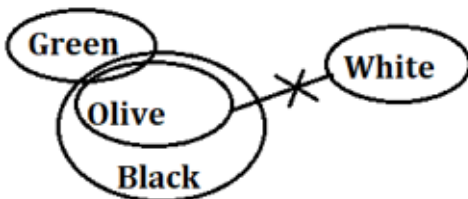
S96. Ans.(d)

Sol.



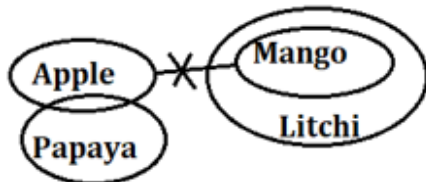
S97. Ans.(b)

Sol.



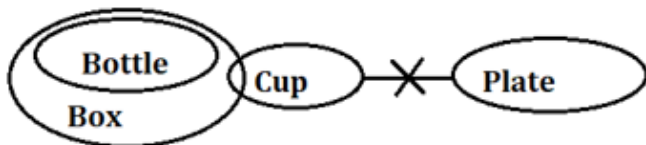
S98. Ans.(e)

Sol.



S99. Ans.(b)

Sol.



S100. Ans.(d)

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