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RBI ASSISTANT Exam

Mains Answer Key

Simplifying
Government Exams

| | | | | |
|--|--|--|---|--|
|  SSC CHSL |  IAS EXAM |  RRB NTPC |  NTSE |  CDS |
|  SSC CGL |  CBSE UGC NET |  IBPS PO |  NDA | |
|  SBI PO |  IBPS CLERK |  AFCAT |  SSC JE |  CTET |
|  CSIR UGC NET |  CAPF |  IBPS RRB | | |

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Answers

- | | | | | |
|-------|-------|-------|-------|-------|
| 1. 4 | 2. 2 | 3. 1 | 4. 3 | 5. 5 |
| 6. 2 | 7. 1 | 8. 5 | 9. 3 | 10. 1 |
| 11. 1 | 12. 2 | 13. 2 | 14. 3 | 15. 1 |
| 16. 5 | 17. 2 | 18. 2 | 19. 1 | 20. 1 |
| 21. 4 | 22. 4 | 23. 2 | 24. 1 | 25. 1 |
| 26. 4 | 27. 1 | 28. 1 | 29. 5 | 30. 1 |
| 31. 4 | 32. 2 | 33. 1 | 34. 3 | 35. 1 |
| 36. 2 | 37. 5 | 38. 3 | 39. 1 | 40. 3 |

41. 2; Let the total work be 336 units
(LCM of 42, 28 and 48 = 336 units)

$$\therefore \text{A's one day's work} = \left(\frac{336}{42}\right) = 8 \text{ units}$$

$$\text{Similarly, B's one day's work} = \left(\frac{336}{28}\right) =$$

12 units

$$\text{C's one day's work} = \left(\frac{336}{48}\right) = 7 \text{ units per day}$$

$$\therefore \text{A's 7 days' work} = 7 \times 8 = 56 \text{ units}$$

$$\text{B's 7 days' work} = 7 \times 12 = 84 \text{ units}$$

$$\therefore \text{Remaining work} = 336 - (56 + 84) = 196$$

$$\therefore \text{C can do the remaining work in } \frac{196}{7}$$

$$= 28 \text{ days}$$

42. 1; Scheme A Scheme B

$$\text{Invested } x \quad 7200 - x$$

Let ₹x be invested for 6 years at the rate 12% per annum.

And ₹(7200 - x) be invested for 2 years at the rate of 12% per annum.

$$\text{Now, } 6 \times 12\% \text{ of } x + 2 \times 12\% \text{ of } (7200 - x) = 4008$$

$$\text{or, } 72\% \text{ of } x + 24\% \text{ of } (7200 - x) = 4008$$

$$\text{or, } 0.72x - 0.24x = 4008 - 24 \times 72 = 4008 - 1728 = 2280$$

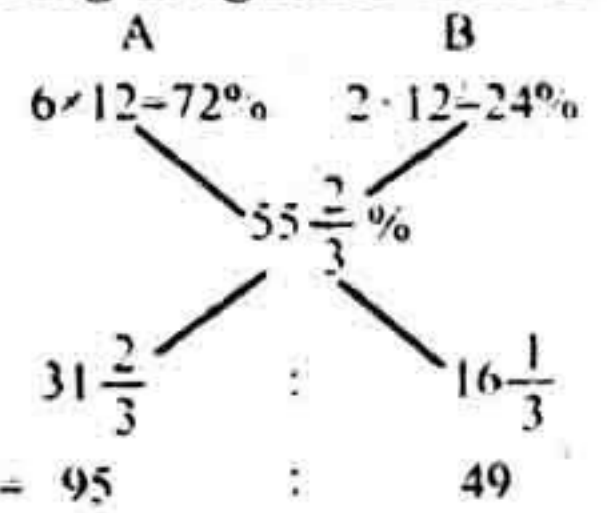
$$\text{or, } 0.48x = 2280$$

$$\therefore x = \frac{2280}{0.48} = \frac{228000}{48} = ₹4750$$

Quicker Approach:

$$\text{Overall \% interest} = \frac{4008}{7200} \times 100 = 55\frac{2}{3}\%$$

Using alligation method



$$\therefore \text{Investment in A} = \frac{7200}{95+49} \times 95$$

$$= \frac{7200}{144} \times 95 = \frac{9500}{2} = ₹4750$$

43. 4; Area of the circular plot = πr^2

$$= \frac{22}{7} \times 21 \times 21$$

\therefore Area of the remaining part of the circular

$$\text{plot} = \frac{22}{7} \times 21 \times 21 - \frac{231}{6}$$

$$= 66 \times 21 - 38.5 = 1386 - 38.5$$

$$= 1347.5 \text{ sq metre}$$

$$44. 4; \text{Length of train} = 54 \times 14 \times \frac{5}{18}$$

$$= 210 \text{ metres}$$

$$\therefore \text{Time taken by the man to cross the stationary train} = \frac{210 \times 18}{7 \times 5} = 6 \times 18$$

$$= 108 \text{ seconds}$$

$$45. 5; \text{Ratio of profit A : B : C}$$

| | | |
|---------------------|------------------|-------------------|
| So, A | B | C |
| $18000 \times 1.5x$ | $15000 \times x$ | $12000 \times 2x$ |
| or, $27x$ | $15x$ | $24x$ |
| $9x$ | $5x$ | $8x$ |

$$\text{Now, } 5x = 2725$$

$$\therefore 8x = \frac{2725}{5} \times 8 = ₹4360$$

$$\therefore \text{C's share in profit} = ₹4360$$

$$46. 4; \text{Let the speed of the current be } x \text{ kmph.}$$

$$\text{Then, } \frac{9}{12+x} + \frac{9}{12-x} = 2$$

$$\text{or, } \frac{9(12-x+12+x)}{144-x^2} = 2$$

$$\text{or, } \frac{24 \times 9}{144-x^2} = 2$$

$$\text{or, } 144 - x^2 = 108$$

$$\text{or, } x^2 = 36$$

$$\therefore x = 6 \text{ kmph}$$

Quicker Approach: When we reach at the stage

$$\frac{9}{12+x} + \frac{9}{12-x} = 2$$

it comes to our mind that x should be a multiple of 3, because RHS is a whole number and LHS has numerators and parts of denominators as multiple of 3. So, select the suitable choice and verify the equation.

Choice (4) 6 km/hr satisfies the equation as

$$\frac{9}{18} + \frac{9}{6} = \frac{1}{2} + \frac{3}{2} = 2$$

$$47. 4; \text{Total quantity of mixture is 91 litres. Now, 26 litres mixture is taken out.}$$

$$\therefore \text{Remaining mixture} = 91 - 26 = 65 \text{ litres}$$

Now, 5 litres pure water is added to the mixture.

$$\text{Now, total quantity of mixture} = 65 + 5 = 70 \text{ litres.}$$

$$\therefore \text{Total quantity of water in the new mixture}$$

$$= \left(\frac{65}{13} \times 2 + 5 \right) = 15 \text{ litres}$$

$$\therefore \text{Reqd \%} = \frac{15}{70} \times 100 = \frac{150}{7} \% = 21\frac{3}{7} \%$$

Method II. Total quantity of mixture = 91 litres

Now, 26 litres mixture is taken out.

$$\therefore \text{Remaining mixture} = 91 - 26 = 65 \text{ litres}$$

Ratio of milk to water in the mixture is 11 : 2.

$$\therefore \frac{65}{13} \times 11 = 55 \quad \frac{65}{13} \times 2 = 10 \quad \left. \begin{array}{l} 55 \\ 15 \end{array} \right\} +5 \text{ litres is water added}$$

$$\therefore \text{New mixture} = 55 + 15 = 70 \text{ litres}$$

$$\therefore \text{Required \% of water in the new mixture}$$

$$= \frac{15}{70} \times 100 = \frac{150}{7} \% = 21\frac{3}{7} \%$$

$$48. 1; ? = (47)^2 - (8)^2 - (12)^2$$

$$= 2209 - 64 - 144 = 2001 \approx 2010$$

$$49. 5; \sqrt{\sqrt{48} + \sqrt{4900}} \times \sqrt{76} = 184 - ? + 7$$

$$\Rightarrow \sqrt{7+70} \times 9 = 184 - \frac{?}{7}$$

$$\Rightarrow \sqrt{\frac{1}{10}} \times 9 = 184 - \frac{?}{7}$$

$$\Rightarrow \frac{1}{3} \times 9 = 184 - \frac{?}{7}$$

$$\Rightarrow 184 - 3 = \frac{?}{7}$$

$$\therefore ? = (184 - 3) \times 7 = 181 \times 7 = 1267$$

$$50. 4; (10^{11} \times 3.465 + 10^{12} \times 0.253) + (120 \times 10^3) = 10^7 + 2$$

$$\text{or, } \frac{10^{11} \times 3.465 + 10^{12} \times 0.253}{10^6 \times 12} = \frac{10^7}{2}$$

$$\text{or, } \frac{10^5 \times 3.465 + 10^6 \times 0.253}{12} = \frac{10^7}{2}$$

$$\text{or, } \frac{10^5(3.465 + 2.530)}{12} = \frac{10^7}{2}$$

$$\text{or, } 10^7 \approx 10^5$$

$$\therefore ? \approx 5$$

$$51. 4; \frac{1863 + 6.5 - 184}{?} = 851 + 37$$

$$\text{or, } \frac{287 - 184}{?} = 23$$

$$\text{or, } ? = \frac{103}{23} \approx 4.47 \approx 5$$

$$52. 5;$$

$$? \approx \left(\frac{42+24}{2.2} \right)^2 = \left(\frac{660}{22} \right)^2 = (30)^2 = 900$$

$$53. 3; ? \times 19 \approx (9000 + 40) \times 45$$

$$= \frac{9000}{40} \times 45 = \frac{9000}{8} \times 9 = \frac{81000}{8} = 10125$$

$$\therefore ? \approx \frac{10125}{19} = 532.89 \approx 540$$

$$54. 1; \sqrt{4.5 \times 3.2 \times \sqrt{625}} = 12\frac{6}{7} + \frac{?}{14}$$

$$\text{or, } \sqrt{14.4 \times 25} = \frac{90}{7} \times \frac{14}{?}$$

$$\text{or, } \sqrt{9 \times 1.6 \times 25} = \frac{180}{?}$$

$$\text{or, } 15 \times \sqrt{1.6} = \frac{180}{?}$$

$$\text{or, } ? = \frac{180}{15 \times \sqrt{1.6}} = \frac{12}{1.25} = 9.6 \approx 10$$

$$55. 4; \frac{\sqrt{15+24 \times 0.5}}{\sqrt{10.2+?}} = 3$$

$$\text{or, } \frac{\sqrt{27}}{3} = \sqrt{10.2+?}$$

$$\text{or, } \sqrt{3} = \sqrt{10.2+?}$$

Squaring both sides, we get

$$3 = 10.2 + ?$$

$$\therefore ? = \frac{10.2}{3} = 3.4$$

$$56. 2; ? + 25$$

$$= \left(\sqrt{2 + \frac{1}{144}} \right) + \left(\sqrt{1 + \frac{49}{576}} \right) \times \frac{27}{34}$$

$$= \sqrt{\frac{289}{144}} \times \sqrt{\frac{576}{625}}$$

$$= \frac{17}{12} \times \frac{24}{25} \times \frac{27}{34} = \frac{27}{25}$$

$$\therefore ? = \frac{27}{25} \times 25 = 27$$

$$57. 5; 65 \times 9 + ? = 101 + \sqrt{256} = 101 + 16 = 117$$

$$\text{or, } ? = \frac{65 \times 9}{117} = 5$$

$$58. 1; \frac{5}{3} \text{ of } 1440 + 40\% \text{ of } 3550 - ? = 61^2$$

$$\text{or, } \frac{5}{3} \times 1440 + \frac{2}{5} \times 3550 - 61^2 = ?$$

$$\text{or, } 5 \times 480 + 2 \times 710 - 3721 = ?$$

$$\text{or, } ? = 2400 + 1420 - 3721 = 99$$

$$59. 2; ? + (25\% \text{ of } 289 - 32\frac{3}{4}) = 0.2$$

$$\text{or, } ? + \left(\frac{1}{4} \times 289 - \frac{131}{4} \right) = 0.2$$

$$\text{or, } ? + \left(\frac{289 - 131}{4} \right) = 0.2$$

$$\text{or, } ? \times \frac{4}{158} = 0.2$$

$$\therefore ? = \frac{0.2 \times 158}{4} = 0.2 \times 39.5 = 7.9$$

$$60. 3; 84 + 14^2 = ? \times 105 \div 8.25$$

$$\text{or, } 84 + 196 = \frac{? \times 105}{8.25}$$

$$\therefore ? = \frac{280 \times 8.25}{105} = \frac{280 \times 8 + 280 \times \frac{1}{4}}{105}$$

$$= \frac{2240 + 70}{105} = \frac{2310}{105} = 22$$

$$61. 2; (12.5 \times 14) + 20 + 41.25 = (?)^2 \div 2.5$$

$$\text{or, } 8.75 + 41.25 = \frac{(?)^2}{2.5}$$

$$\text{or, } 50 \times 2.5 = ?$$

$$\therefore ? = 125$$

$$\therefore ? = \sqrt[5]{5 \times 5 \times 5} = 5$$

$$\therefore (a+b)^2 = a^2 + 2ab + b^2$$

$$\text{So, } (0.36 + 0.14)^2 = (0.5)^2 = 0.25$$

63. 3. Let Diya's monthly salary be ₹100.

Now, she spends $(12 + 24 + 30)\% = 66\%$

\therefore Remaining amount = $100 - 66 = ₹34$

Now, again she spends 60% of ₹34 on fixed deposit.

\therefore Remaining amount = 40% of ₹34 = ₹13.6

$$\text{Since, } 100 = 26500$$
$$\therefore 13.6 = \frac{26500}{100} \times 13.6 = 265 \times 13.6 = ₹3604$$

64. 5; Monthly ratio of earning of P to Q:

| | |
|-------------------------------|--|
| P | Q |
| 4x | 7x |
| $\downarrow +20\%$ (increase) | $\downarrow -40\%$ (decrease) |
| $4 \times 1.2x$ | $7x - \frac{7x \times 2}{5} = \frac{21x}{5}$ |
| $\therefore 4.8x$ | $\therefore \frac{21x}{5}$ |

$$\text{Now, } \frac{4.8x \times 5}{21x} = \frac{8}{7}$$

So, we can't determine the amounts of monthly earnings of P and Q.

Note: Since all the given values are in ratio or % (and no absolute value is given), we can't find the solution.

65. 1; $\therefore y = 5x$

$$\text{Now, } \frac{y+1}{x+19} = \frac{3}{1}$$

$$\text{or, } \frac{5x+1}{x+19} = \frac{3}{1}$$

$$\text{or, } 5x + 1 = 3x + 57$$

$$\text{or, } 2x = 56$$

$$\therefore x = 28$$

$$\therefore \text{Difference} = 5x - x = 4x = 4 \times 28 = 112$$

66. 4; Let Sita's present age be 3x.

Then Gita's present age = 8x

$$\text{Now, } \frac{3x-5}{8x-5} = \frac{2}{7}$$

$$\text{or, } 14x - 35 = 16x - 10$$

$$\text{or, } 5x = 25$$

$$\therefore x = 5$$

Hence the present age of Gita = $8 \times 5 = 40$ years

Method II.

| | |
|----------------|------|
| Sita | Gita |
| Present 3 | 8 |
| 5 years ago. 2 | 7 |

Difference in terms of ratio = $3 - 2 = 1$

= 5 years

$$\text{or, } 8 - 7 = 5$$

\therefore Gita's present age = $8 \times 5 = 40$ years

67. 5. Perimeter of the rectangle = $2(l + b) = 120$

$$\text{or, } 2(b + 4 + b) = 120$$

$$\text{or, } 4b + 8 = 120$$

$$\therefore b = \frac{112}{4} = 28$$

The largest circle drawn inside the rectangle will have diameter equal to the breadth of the rectangle.

$$\therefore \text{Circumference of the circle} = \pi d = \frac{22}{7} \times 28 = 88\text{m}$$

68. 5; Average salary of A, B and C is 7200

$$\therefore \text{Total salary of A, B and C} = 7200 \times 3 = 21600$$

$$\text{Total salary of B, C and D} = 7550 \times 3 = 22650$$

\therefore Let A's salary be ₹x.

Then D's salary = ₹1.25x

$$\text{Now, } B + C + 1.25x - x - B - C = 22650 - 21600$$

$$\text{or, } 0.25x = 1050$$

$$\therefore x = \frac{105000}{25} = 4200$$

\therefore Average salary of B and C

$$= \frac{21600 - 4200}{2} = \frac{17400}{2} = ₹8700$$

69. 2; The series is $+1^3 + 1, +2^3 + 1, +3^3 + 1, +4^3 + 1, +5^3 + 1, \dots$

$$\text{ie } 18 + 2^3 + 1 = 27, 27 + 3^3 + 1 = 55,$$

$$55 + 4^3 + 1 = 120, 120 + 5^3 + 1 = 246, \dots$$

70. 2; The series is a combination of two series

I.

| | | | |
|---------------|------|------|------|
| 13 | 15.4 | 17.8 | 20.2 |
| └──┬──┬──┬──┘ | | | |
| | +2.4 | +2.4 | +2.4 |

II.

| | | |
|------------|------|------|
| 10.8 | 8.2 | 5.6 |
| └──┬──┬──┘ | | |
| | -2.6 | -2.6 |

71. 4; The series is $+15 \times 1, +15 \times 3, +15 \times 5, +15 \times 7, +15 \times 9, \dots$

$$\text{ie } 4 + 15 \times 1 = 19, 19 + 15 \times 3 = 64,$$

$$64 + 15 \times 5 = 139, 139 + 15 \times 7 = 244,$$

$$244 + 15 \times 9 = 379, \dots$$

72. 3; The series is $+10, +20, +40, +80, +160, \dots$

$$\text{ie } 7 + 10 = 17, 17 + 20 = 37, 37 + 40 = 77,$$

$$77 + 80 = 157, 157 + 160 = 317, \dots$$

73. 1; The series is $\times 0.5 + 2, \times 1 + 2,$

$$\times 1.5 + 2, \times 2 + 2, \dots$$

$$\text{ie } 12 \times 0.5 + 2 = 8, 8 \times 1 + 2 = 10,$$

$$10 \times 1.5 + 2 = 17, 17 \times 2 + 2 = 36,$$

$$36 \times 2.5 + 2 = 92, \dots$$

74. 5; Total number of gold bangles sold by store R in June, July and August together

$$= 35\% \text{ of } (145 + 105 + 130) = 35\% \text{ of } 380 = \frac{35}{100} \times 380 = \frac{7}{20} \times 380$$

$$= 7 \times 19 = 133$$

75. 3; Req'd difference

$$= (121 + 145) - (89 + 133) = 266 - 222 = 44$$

76. 3; Req'd average

$$= \frac{129 + 87 + 165}{3} = \frac{381}{3} = 127$$

$$77. 1; \text{Req'd ratio} = \frac{(S+T) \text{ August}}{(S+T) \text{ September}}$$

$$= \frac{114 + 129}{220 + 131} = \frac{243}{351} = \frac{9}{13} = 9 : 13$$

$$78. 4; \text{Req'd \% increase} = \frac{177 - 120}{120} \times 100$$

$$= \frac{57}{120} \times 100 = \frac{57 \times 5}{6} = 47.5\%$$

79. 2. Let the cost of each chocolate be ₹x

Then, profit on 25 chocolates

$$= 25x \times \frac{20}{100} = 5x$$

$$\text{Profit on 15 chocolates} = 15x \times \frac{30}{100} = 4.5x$$

\therefore Profit on all $(25 + 15 =) 40$ chocolates

$$= 40x \times \frac{25}{100} = 10x$$

$$\therefore 10x - (5x + 4.5x) = 6$$

$$\text{or, } 0.5x = 6$$

$$\therefore x = \frac{6}{0.5} = ₹12$$

80. 1; First number x Second number y

$$0.5x + y = 0.875x$$

$$\Rightarrow y = 0.375x$$

$$\therefore \frac{x}{y} = \frac{1000}{375} = \frac{40}{15} = \frac{8}{3} = 8 : 3$$

| | | | | |
|--------|--------|--------|--------|--------|
| 81. 3 | 82. 1 | 83. 5 | 84. 3 | 85. 5 |
| 86. 1 | 87. 3 | 88. 1 | 89. 1 | 90. 4 |
| 91. 4 | 92. 1 | 93. 2 | 94. 4 | 95. 2 |
| 96. 5 | 97. 5 | 98. 4 | 99. 5 | 100. 3 |
| 101. 1 | 102. 5 | 103. 1 | 104. 1 | 105. 3 |
| 106. 1 | 107. 2 | 108. 1 | 109. 4 | 110. 2 |
| 111. 3 | 112. 5 | 113. 2 | 114. 2 | 115. 1 |
| 116. 3 | 117. 3 | 118. 2 | 119. 5 | 120. 1 |

121. 2; The appropriate word should be 'rode'

122. 2; The correct spelling is 'marriage'

123. 5

124. 2; The correct spelling is 'cottage'

125. 1; The correct spelling should be 'surged'

(126-130): CEBDFA

126. 3 127. 5 128. 5 129. 1 130. 2

131. 1 132. 5 133. 4 134. 5 135. 3

136. 1 137. 1 138. 2 139. 5 140. 2

141. 1; Replace 'unfortunate' with 'unfortunately'

142. 5

143. 2; Insert 'that' before 'comes'

144. 3; Replace 'himself' with 'him'

145. 4; Replace 'following' with 'followed by'

146. 4 147. 2 148. 2 149. 2 150. 5

151. 3 152. 5 153. 3 154. 4 155. 2

156. 3 157. 4 158. 1 159. 3 160. 5

161. 2; INSTRUCTION

The required letters are S, R, U and O. With these letter the words that can be formed are SOUR and OURS.

(162-166):

telephone lines are busy → vk jd ba ef ... (i)
draw two parallel lines → qn vk hf om ... (ii)
busy people never draw → tx ba su hf ... (iii)
two lines are intersecting

→ mi om jd vk ... (iv)

From (i) and (ii), lines → vk ... (v)

From (i) and (iii), busy → ba ... (vi)

From (i), (iv) and (v), are → jd ... (vii)

From (i), (v), (vi) and (vii),

telephone → cf ... (viii)

From (ii), (iv) and (v), two → om ... (ix)

From (ii) and (iii), draw → hf ... (x)

From (ii), (v), (ix) and (x),

parallel → qn ... (xi)

From (iii), (vi) and (x),

people/never → tx/su ... (xii)

From (iv), (v), (vii) and (ix),

intersecting → mi ... (xiii)

162. 4 163. 4 164. 1 165. 1 166. 5

(167-171):

Facing north: ↑ ↑ ↑ ↑ ↑ ↑ ↑
Z V W U Y T X

167. 4; All others have only one friend sitting between the two friends given in each pair.

168. 1 169. 3 170. 4 171. 2

172. 2; P R O H I B I T S

(173-174):

F > J > H > G > I
(172 cm) (160 cm)

173. 5

174. 4; 160 + 8 = 168 cm

175. 2; All keys are locks (A) + Some locks are irons (I) = A + I = No conclusion. Hence conclusion I does not follow. Neither does conclusion II follow.

176. 4; All instructions are manuals (A) + All manuals are rules (A) = A + A = A = All instructions are rules. Hence conclusion I follows.

Again, All instructions are manuals (A) → conversion → Some manuals are instructions (I). Hence conclusion II does not follow.

177. 4. Some cards are papers (I) + All papers

are books (A) = I + A = I = Some cards are books. Hence conclusion I follows

Again, Some cards are books (I) + No book is a novel = I + E = O = Some cards are not novels. Hence conclusion II does not follow.

178. 3; Some doors are windows (I) + No window is a cabinet (E) = I + E = O = Some doors are not cabinets. Hence neither I nor II follows. But the two conclusions make a complementary E-I pair. Hence either conclusion I or II follows.

179. 1; I-type statements can't be combined. Hence neither conclusion follows.

180. 3; First letter of the second word from the left = B

Second letter of the first word from the right = I

There are six letters between B and I in the alphabetical order.

181. 4; SLY → LSY; BUD → BDU;

MET → EMT; DYE → DEY;

AIM → AIM

182. 1; SLY → RKX; BUD → AVC;

MET → LFS; DYE → CXF; AIM → BJL

183. 5; SLY → SMY; BUD → CUD;

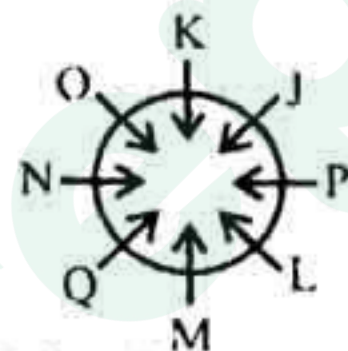
MET → MFT; DYE → EYE; AIM → BIM

184. 5; SLY BUD MET DYE AIM

→ AIM BUD DYE MET SLY

185. 2; In all others, the first letter occupies the same place in alphabetical order from the left as the second does from the right.

(186-190):



186. 5 187. 3 188. 1 189. 3 190. 4

191. 4; A < Y = B ≤ X = C ≥ Z

∴ A < C

Hence conclusion I is true but conclusion II is not true.

192. 1; Given statements:

P ≤ A < R = K ... (i)

S ≥ J ≥ R ... (ii)

Combining (i) and (ii), we get

P ≤ A < R = K ≤ J ≤ S

Hence P < J and conclusion I is true.

Also, S ≥ K and conclusion II is true.

193. 5; Given statements:

P ≤ A < R = K ... (i)

S > J > R ... (ii)

Combining (i) and (ii), we get

P ≤ A < R = K ≤ J < S

Hence A < J and conclusion I is not true

But S > P and conclusion II is true

194. 2; Given statement:

P < A > S ≥ T = F < D

Hence P and T can't be compared and conclusion I does not follow. Neither can D and S. Hence conclusion II does not follow.

195. 4; Given statements:

O < P ≥ T > S ... (i)

P ≤ N < L ... (ii)

From (i) and (ii),

N ≥ P ≥ T > S or N > S. Hence conclusion I is true.

Also, O < P ≤ N < L or O < L

Hence conclusion II doesn't follow

(196-200):

| Floor | Person |
|-------|--------|
| 8 | M |
| 7 | P |
| 6 | N |
| 5 | Q |
| 4 | T |
| 3 | R |
| 2 | O |
| 1 | S |

196. 2

197. 1

198. 4

199. 3;

| Floor | Person |
|-------|--------|
| 8 | S |
| 7 | T |
| 6 | N |
| 5 | Q |
| 4 | P |
| 3 | R |
| 2 | O |
| 1 | M |

200. 5; In all others, there are two floors between the floors of the friends given in each pair.



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