RISHI ACADEMY OF COMPETITIVE EXAMS

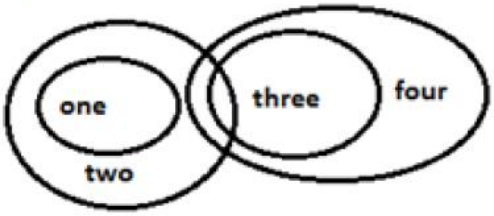
IBPS Clerk Preliminary 2021. ICP-2021-090023

SOLUTION

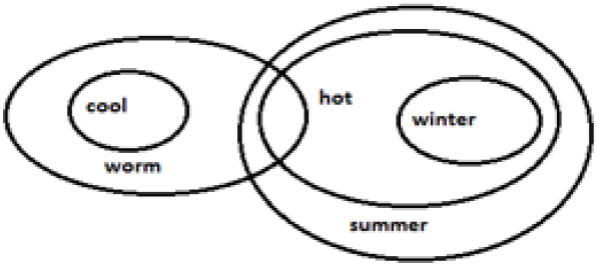
1. (4) In the second last paragraph of the passage, Tenali Ramakrishna explains that the reason for his cat's being in the best of her shape is that his cat did not drink milk and had eaten only mice. Hence, (4) is the correct option.
2. (5) The only information which has been given about the cats that the trader wanted to gift the king is that they were 'good quality cats'. Hence none of the given options is true. Hence, (5) is the correct option.
3. (4) It is given in the sixth paragraph of the passage that "to the utter surprise of the Queen and the King, Tenali Ramakrishna's cat didn't even sniff at it (milk).". Hence, (1) is true. It is also given in the fourth paragraph that "…Tenali Ramakrishna's cat was in the best of her shape. The reason behind their surprise was…". Hence, (3) is also true. Hence, (4) is the correct option.
4. (1) Usually, cats are fond of drinking milk but Tenali had once served hot milk to his cat which had caused burns to the cats due to which she refrain drinking milk. So, it was Tenali Ramakrishna who is to be blamed for the cat's behaving against its natural instinct. Hence (1) is the most appropriate answer.
5. (3) It is given in the eight paragraph of the passage that '…..there is a well known saying that the cats close their eyes while drinking milk; and I wanted to rid this cat from this bad habit…… I put boiling hot milk in bowl and placed it before this cat.' From this we can conclude that (3) is the correct option.
6. (3) 'Utterly' means 'completely ' . Hence, 'Extremely' is the word which is most similar in meaning to it
7. (1) 'Rearing' means 'to bring up and care for (a child) until they are fully grown' . Hence, 'Bringing up' is the word which is most similar in meaning to it
8. (5) 'Sniff' means 'draw up air audibly through the nose to detect a smell' . Hence, 'Smell' is the word which is most similar in meaning to it
9. (2) 'Instinct' means 'an innate, typically fixed pattern of behaviour in animals in response to certain stimuli' . Hence, 'Reason' is the word which is most opposite in meaning to it
10. (4) 'Assuage' means 'make (an unpleasant feeling) less intense.' . Hence, 'Exacerbate' is the word which is most opposite in meaning to it.
11. (4) 'imperative, corpus' is the correct use. Imperative means of vital importance. Corpus means the capital or principal amount.
12. (2) 'devised, push' is the correct use. Devised means plan or invent by careful thought.
13. (5) committed, ships' is the correct use. Committed means pledged or bound to a certain course or policy. Ships means (of a product) be made available for purchase.
14. (1) 'specifically, thereby' is the correct use. Specifically means having a special application, bearing, or reference.
15. (3) 'sought, part' is the correct use.

(16 – 20): The correct sequence to form meaningful sequence is DGBAFCE.

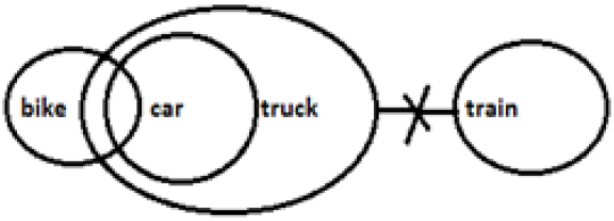
16. (4) 17. (2) 18. (5) 19. (3) 20. (4)
21. (3) Delete 'to'
22. (2) Replace 'is' with 'was' as sentence starts in a past tense ends in past tense.
23. (3) Replace 'against' with 'for'
24. (3) Replace 'where' with 'when'
25. (1) Insert 'a' before 'sharp'
26. (4)
27. (1)
28. (4)
29. (5)
30. (3)
31. (3)



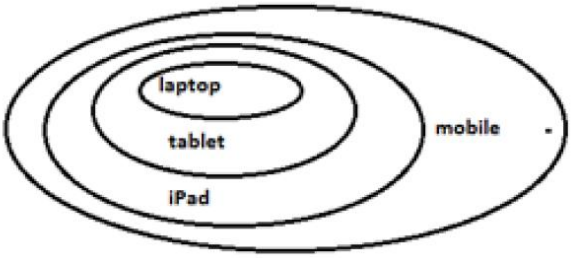
32. (1)



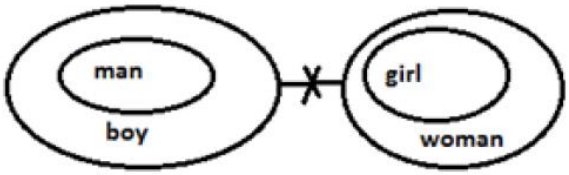
33. (5)



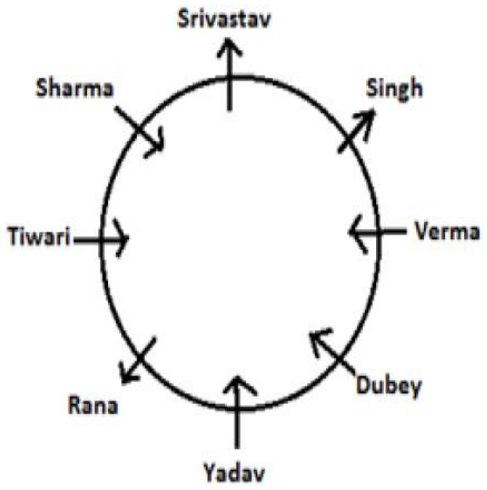
34. (4)



35. (2)



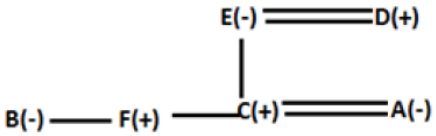
(36 – 40)



36. (3) 37. (2) 38. (1) 39. (1) 40. (4)
41. (1)
42. (5)
43. (2)
44. (4)
45. (1)
(46 – 50)

PERSON	NEWSPAPER	GENDER
A	Business Standard	Female
B	Nav Bharat Times	Female
C	Times of India	Male
D	Financial Times	Male
E	Indian Express	Female
F	Hindustan Times	Male

Family Tree:



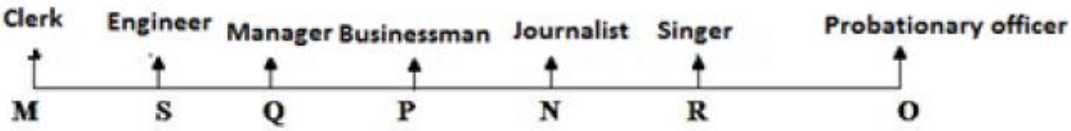
46. (1) 47. (3) 48. (2) 49. (5) 50. (3)
51. (3) Required number of letters = (8, @, &,2,6,&, $,7, *, 3,%, 4)= 12
52. (1) There is only such symbol (E%A)
53. (3) The series is CMA, N&E, 2Y3, S&W.....
54. (1)

$R = 8^{th}$

$L = 13^{th}$

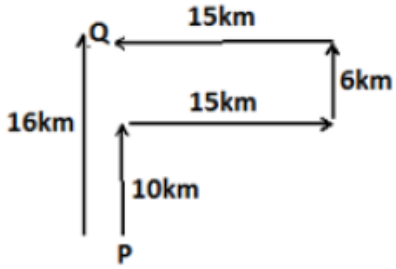
$\rightarrow L = 21th = 4$

55. (4) Except (d), in other groups, there is a gap of one letter/symbol between two.
(56 – 60)



56. (2) 57. (3) 58. (2) 59. (1) 60. (4)
61. (4)
62. (3)
63. (3)

(64 – 65)



64. (1) 65. (4)
66. (1) 2009 – 76350
2010 – 57250
2011 – 76600
2012 – 71650
2013 – 66250
2014 – 72700
∴ Required year = 2011
67. (5)

$$\text{Required } \% = \frac{76350 - 57250}{76350} \times 100$$
$$= \frac{19100}{76350} \times 100$$
$$= 25\%$$

68. (3) Required difference = 135500 – 134900 = 600
69. (5)

$$\text{Ratio} = \frac{26300}{25200} = 263 : 252$$

70. (2) In 2009 and 2014 = 31250 : 30000 = 25 : 24
71. (2) 456.5 – (49.5) = 407, 407 – (38.5) = 368.5, 368.5 – (27.5) = 341, 341 – (16.5) = 324.5
∴ 324.5 – (5.5) = 319
72. (1) ×2 – 3.8, ×2 – 3.8, ×2 – 3.8……
∴ 311 × 2 – 3.8 = 618.2
73. (5)
74. (4)

$$+8^3, -7^2, +6^3, -5^2$$
$$= 678 + 4^3 = 742$$

75. (3) +352, + 176, +88, +44
884 + 22 = 906

76. (1)

$$\text{Sum of the age of two men} = 35 + 45 = 80$$
$$\text{Sum of the age of two women} = 80 + 2 \times 8 = 96$$
$$\therefore \text{Required average} = \frac{96}{2} = \mathbf{48}$$

77. (3) Let B invested money for x months.

∴ 5×7:7×x=1:2

∴35:7x=1:2

7x=35×2

x=10 months

78. (1)

$$\text{Let initial men} = 100$$
$$\text{Lost in war} = \frac{10}{100} \times \mathbf{100} = \mathbf{10}$$
$$\text{Lost in diseases} = \frac{10}{100} \times \mathbf{90} = \mathbf{9}$$
$$\text{Disables} = \frac{81}{100} \times \mathbf{90} = \mathbf{8.1}$$
$$\therefore \text{Remaining men} = 72.9$$
$$\text{When 72.9 remaining total men} = 100$$
$$\text{When 729000 remaining total men} = 1000000$$

79. (4)

$$\text{upstream speed (u)} = \frac{3}{4} \times \frac{4}{45} \times \mathbf{60} = \mathbf{4}$$
$$\text{Downstream speed (v)} = \frac{3}{4} \times \frac{2}{15} \times \mathbf{60} = \mathbf{6}$$
$$\text{Speed of a man in still water} = \frac{1}{2}(\mathbf{4} + \mathbf{6})$$
$$= 5 \text{ km/hr}$$

80. (3)

Let radius = r

height of cylinder = x

$$\pi r^2 x + \frac{1}{3}\pi \mathbf{r}^2 h = \mathbf{3} \times \frac{1}{3}\pi r^2 h$$
$$\pi r^2 \left(x + \frac{1}{3}\boldsymbol{h}\right) = \pi r^2 h$$
$$x + \frac{1}{3}\boldsymbol{h} = h$$
$$x = h - \frac{\boldsymbol{h}}{3} = \frac{2\boldsymbol{h}}{3}$$

81. (3)

kaushalya – 20 days

Keikayi – 25 days

Sumitra – $\frac{1}{\frac{1}{10}-\left(\frac{1}{20}+\frac{1}{25}\right)}$

$= 100$

$\therefore$ Ratio of their 1 day work $= \frac{1}{20}:\frac{1}{25}:\frac{1}{100}$

$= 5 : 4 : 1$

$\therefore$ Share of sumitra $= \frac{1}{10} \times 700$

$= 70$

82. (3)

speed of vimal $= 30$ km/hr

Speed of kamal $= 40$ km/hr

Let distance b/w p and m = x km

$\frac{x}{30} = \frac{650-x}{40} + 3$

$\frac{x}{30} = \frac{650-x+120}{40}$

$4x = 1950 - 3x + 360$

$7x = 2310$

$x = 330$ km

83. (1)

let required height = h m

$\therefore 15 \times 12 \times h = \frac{5}{100} \times \frac{3}{100} \times 16 \times 25 \times 60$

$h = 0.2$ m

84. (1)

work done by c in 1 day $= \frac{1}{2} - \left(\frac{1}{5} + \frac{1}{10}\right)$

$= \frac{1}{2} - \frac{3}{10} = \frac{2}{10} = \frac{1}{5}$

$\therefore$ Ratio of their work $= \frac{1}{5}:\frac{1}{10}:\frac{1}{5}$

$= 2 : 1 : 2$

$\therefore$ C's contribution $= \frac{2}{5} \times 100 = 40$

85. (3) Let Required days = x

$\therefore 30 \times 20 = x \times 20 + 15\ (35 - x)$

$600 = 20x + 525 - 15x$

$5x = 75$

$x = 15$

86. (5) sum of A, B and C = 600 × 3 = 1800

A = 300, B = 600, C = 900

Now A = 330, B = 480, Average = 630

$\therefore 630 \times 3 = 330 + 480 + C$

C = 1080
C will be increased by 180

87. (1)

let the installments be x

$$P=\frac{x}{1+\frac{r}{100}}+\frac{x}{\left(1+\frac{r}{100}\right)^2}$$

$$210=\frac{x}{1+\frac{10}{100}}+\frac{x}{\left(1+\frac{10}{100}\right)^2}$$

$$\therefore x=121\text{Rs.}$$

88. (2)

$$CP=\frac{100}{110}\times 2750=25$$

$$\text{Now SP} = 25.75$$

$$\therefore \text{Profit \%} =\frac{0.75}{25}\times 100 = 3\%$$

89. (2)

$$\frac{A}{B}=\frac{2}{3},\ \frac{B}{C}=\frac{4}{5},\ \frac{C}{D}=\frac{6}{7}$$

$$A : B : C = 8 : 12 : 15$$

$$A : B : C : D = 16 : 24 : 30 : 35$$

90. (1) When compounded yearly,
Interest = 200
When compounded half – yearly
r = 2%, n = 2
∴ Interest = 202
∴ Difference = 202 – 200 = 2

91. (2)

$$\sqrt{x} = 107\times 79 - (54)^2 - (74)^2$$

$$\sqrt{x} = 8453 - 2916 - 5476$$

$$\sqrt{x} = 61$$

$$x = 3721$$

92. (3) (24 × 8 + 21 × 8 + 8 × 8 + 7 × 8) – 98
= 8(60) – 98
= 480 – 98
= 382

93. (1) 3463(300 – 5) – 18611 – 5883
= 1021585 – 18611 – 5883
= 997091

94. (5)

$$\frac{3}{11}+\frac{39}{44}+\frac{5}{26}$$

$$=\frac{51}{44}+\frac{5}{26}$$

$$=\frac{13\times51+5\times22}{572}=\frac{663+110}{572}=\frac{773}{572}=1.35$$

95. (3)

$(20 + 3.1)^2 + (50 - 1.4)^2 - (40 - 0.2)^2 - 1147.69$

$= 400 + 3.11^2 + 40\times3.1 + 2500 + (1.4)^2 - 100 \times 1.4 - 1600 - (0.2)^2 + 80 \times 0.2 - 1147.69$

$= 400 + 124 + 2500 - 140 - 1600 + 16 + (3.11)^2 + (1.4)^2 - (0.2)^2 - 1147.69$

$= 1300 - 1147.69 + 9.61 + 1.96 - 0.04$

$= 163.84$

96. (4)

$$84 + 144 = \frac{1140}{x}$$

$$x = \frac{1140}{228}$$

$$x = 5$$

97. (5)

98. (3)

$$3^2 = 5 + x$$

$$x = 4$$

99. (4)

$$4^{2x} = 4^8$$

$$x = 4$$

100. (2) 1.135 + 2.55 = 3.68