

IBPS RRB Clerk Prelims 2022 Memory Based Paper (Solutions)

Solutions (1-5):

S1. Ans.(a)

S2. Ans.(c)

S3. Ans.(d)

S4. Ans.(a)

S5. Ans.(e)

Solutions (6-10):

S6. Ans.(c)

S7. Ans.(a)

S8. Ans.(c)

S9. Ans.(b)

S10. Ans.(b)

Solutions (11-15):

Month	Date	Persons
September	11	B
	22	Q
October	11	R
	22	D
November	11	F
	22	T

S11. Ans.(d)

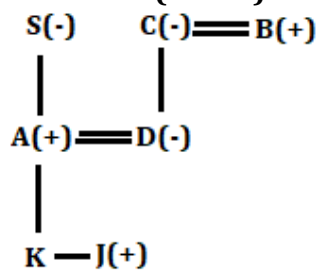
S12. Ans.(b)

S13. Ans.(a)

S14. Ans.(d)

S15. Ans.(d)

Solutions (16-18):



S16. Ans.(c)

S17. Ans.(d)

S18. Ans.(e)

S19. Ans.(d)

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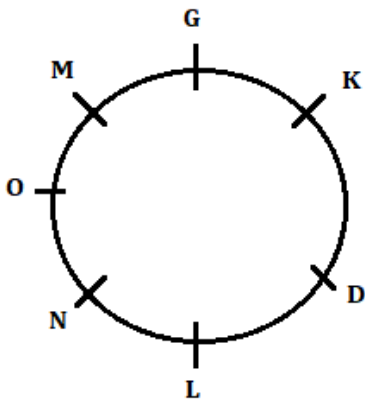
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Solutions (20-24):



S20. Ans.(a)

S21. Ans.(a)

S22. Ans.(a)

S23. Ans.(c)

S24. Ans.(b)

S25. Ans.(b)

Solutions (26-30):

S26. Ans.(e)

S27. Ans.(b)

S28. Ans.(a)

S29. Ans.(d)

S30. Ans.(c)

Solutions (31-34):

Floor	Persons
7	A
6	F
5	C
4	E
3	G
2	B
1	D

S31. Ans.(b)

S32. Ans.(e)

S33. Ans.(c)

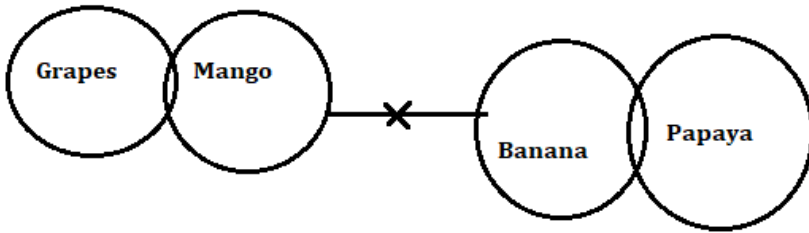
S34. Ans.(d)

S35. Ans.(b)

Solutions (36-39):

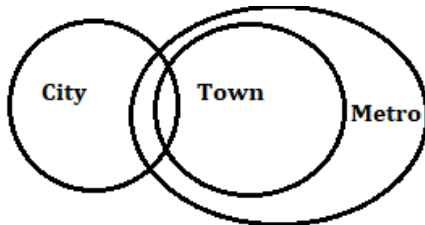
S36. Ans.(c)

Sol.



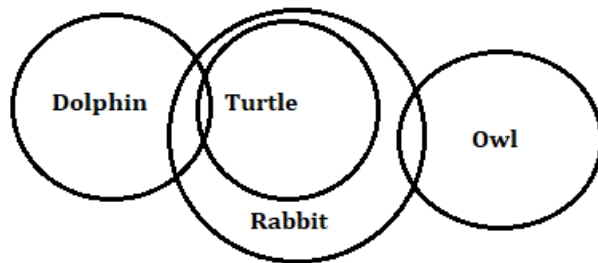
S37. Ans.(a)

Sol.



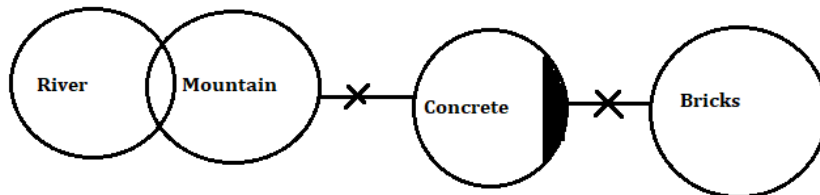
S38. Ans.(c)

Sol.



S39. Ans.(e)

Sol.



S40. Ans.(b)

S41. Ans.(d)

Sol. $y^2 - x^2 = 72$ ----- (i)

$y - x = 4$ ----- (ii)

we know $a^2 - b^2 = (a + b)(a - b)$

So, $4(y + x) = 72$

$y + x = 18$ ----- (iii)

from (ii) & (iii) we get -

$y = 11$ & $x = 7$

so, $(x \times y) = 11 \times 7 = 77$

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S42. Ans.(e)

Sol. Let length and breadth of the rectangle is $7x$ and $3x$ respectively.

ATQ -

$$2(7x + 3x) = 40$$

$$10x = 20$$

$$x = 2 \text{ cm}$$

$$\text{Required area} = 14 \times 6 = 84 \text{ cm}^2$$

S43. Ans.(a)

$$\text{Sol. Required difference} = \frac{1460 \times 8 \times 10}{100} - \frac{1460 \times 5 \times 10}{100} = 1168 - 730 = \text{Rs.}438$$

S44. Ans.(d)

Sol. Let cost price of each article be Rs. $100x$

$$\text{So, } 100x \times \frac{30}{100} - 100x \times \frac{18}{100} = 210$$

$$12x = 210$$

$$x = 17.5 \text{ Rs.}$$

So, cost price of each article = 1750 Rs.

S45. Ans.(e)

Sol. Let each type of articles purchased by man be 'n'

ATQ -

$$52 \times n + 78 \times n + 108 \times n = 1190$$

$$n = 5$$

S46. Ans.(b)

Sol. Let present age of A and B be $5x$ and $4x$ respectively.

ATQ -

$$(5x + 4) - (4x + 6) = 3$$

$$x = 5$$

Present age of B = 20 years

S47. Ans.(d)

Sol. Let the quantity of milk and water in the mixture be $5x$ and $3x$ respectively.

ATQ-

$$\left(120 \times \frac{3x}{8x}\right) : \left(120 \times \frac{5x}{8x} + 20\right) = 9 : 19$$

S48. Ans.(b)

$$\text{Sol. } x = \frac{160}{5} = 32 \text{ km/hr}$$

$$y = 160 \times \frac{3}{10} = 48 \text{ km/hr}$$

Required value of $(x : y) = 32 : 48 = 2 : 3$

S49. Ans.(d)**Sol.** Let speed of boat in still water be x kmph

And distance be 'D' km

ATQ

$$\frac{D}{x-3} = 5$$

$$D = 5(x - 3) \text{ --- (i)}$$

And,

$$\frac{D}{x+3} = 2$$

$$D = 2(x + 3) \text{ --- (ii)}$$

From (i) and (ii)

$$5(x - 3) = 2(x + 3)$$

$$5x - 15 = 2x + 6$$

$$3x = 21 \Rightarrow x = 7 \text{ km/hr}$$

$$\text{So, required distance} = 5 \times (7 - 3) = 20 \text{ km}$$

S50. Ans.(b)**Sol.** Ratio of efficiency of A to B = 7 : 5

So ratio of time required to complete the work = 5 : 7

Now ATQ,

$$(7 - 5) \rightarrow 6 \text{ days}$$

$$2 \rightarrow 6$$

$$5 \rightarrow \frac{6}{2} \times 5 = 15 \text{ days}$$

So, 'A' can complete the work alone in 15 days

S51. Ans.(b)**Sol.** Pattern of series -

$$2 + 2 = 4$$

$$4 + 3 = 7$$

$$7 + 5 = 12$$

$$12 + 7 = 19$$

$$? = 19 + 11 = \mathbf{30}$$

S52. Ans.(c)**Sol.** Pattern of series -

$$67 + 31 = 98$$

$$98 + 31 = 129$$

$$129 + 31 = 160$$

$$? = 160 + 31 = \mathbf{191}$$

$$191 + 31 = 222$$

S53. Ans.(c)**Sol.** Pattern of series -

$$10 + 2^3 = 18$$

$$18 + 3^3 = 45$$

$$45 + 4^3 = 109$$

$$? = 109 + 5^3 = \mathbf{234}$$

$$234 + 6^3 = 450$$

S54. Ans.(a)

Sol. Pattern of series –

$$12 + 2^2 = 16$$

$$16 + 3^2 = 25$$

$$25 + 4^2 = 41$$

$$?= 41 + 5^2 = 66$$

$$66 + 6^2 = 102$$

S55. Ans.(b)

Sol. Pattern of series –

$$15 + 5 = 20$$

$$20 + 5 = 25$$

$$25 + 5 = 30$$

$$?= 30 + 5 = 35$$

$$35 + 5 = 40$$

S56. Ans.(a)

Sol. Total number of sunflowers used in January & March together = $68 + 96 = 164$

Total number of roses used in January & February together = $72 + 88 = 160$

$$\text{Required percentage} = \frac{164-160}{160} \times 100 = 2.5\%$$

S57. Ans.(e)

$$\text{Sol. Required average} = \frac{96+80+118}{3} = 98$$

S58. Ans.(c)

$$\text{Sol. Required ratio} = 72 : 84 = 6 : 7$$

S59. Ans.(c)

$$\text{Sol. Required difference} = (118 - 68) = 50$$

S60. Ans.(a)

$$\text{Sol. Required sum} = (68+112+96) = 276$$

S61. Ans.(b)

$$\text{Sol. Required difference} = 50 \times \frac{3}{5} - 40 \times \frac{5}{8} = 30 - 25 = 5 \text{ kg}$$

S62. Ans.(d)

$$\text{Sol. Required ratio} = 60 : 90 = 2 : 3$$

S63. Ans.(a)

$$\text{Sol. Total dry Apricot sold by shop} = 80 \times \frac{150}{100} \times \frac{60}{160} = 45 \text{ kg}$$

S64. Ans.(b)

$$\text{Sol. Required percentage} = \frac{(60+40)-80}{80} \times 100 = 25\%$$

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S65. Ans.(d)

Sol. Required difference = $(50 + 90) - (80 + 40) = 20 \text{ kg}$

S66. Ans.(d)

Sol. $\frac{510}{?} = 18 + 16$

$? = \frac{510}{34} = 15$

S67. Ans.(d)

Sol. $3 \times ?^2 = 25 + 49 + 289$

$?^2 = \frac{363}{3}$

$?^2 = 121$

$? = 11$

S68. Ans.(d)

Sol. $?^2 = \frac{40}{100} \times 420 + \frac{44}{100} \times 200$

$?^2 = 168 + 88$

$?^2 = 256$

$? = 16$

S69. Ans.(c)

Sol. $? = \frac{7}{3} \times \frac{30}{7} \times \frac{10}{3} \times 81$

$? = 2700$

S70. Ans.(e)

Sol. $(?)^2 = 16 \times 7 + 256 - 7$

$(?)^2 = 361$

$? = 19$

S71. Ans.(c)

Sol. $\sqrt{256} \times \sqrt{169} + 3600 \div 12 = 800 - ?$

$16 \times 13 + 300 = 800 - ?$

$208 + 300 = 800 - ?$

$? = 800 - 508$

$? = 292$

S72. Ans.(a)

Sol. $? = 37.5 \times 14 + 800 - (26)^2 + 136$

$? = 525 + 800 - 676 + 136$

$? = 1325 - 540$

$? = 785$

S73. Ans.(c)

Sol. $3.5 \times 18 - 38 = (?)^2$

$63 - 38 = (?)^2$

$25 = (?)^2$

$? = 5$

S74. Ans.(b)

Sol. $? = \frac{2975}{1190}$

$? = 2.5$

S75. Ans.(b)

Sol. $\frac{25 \div 4 \times 6 \times 2}{3} = ?$

$? = 25$

S76. Ans.(a)

Sol. $(390 + 310 - 225) \times 5 = ?$

$(700 - 225) \times 5 = ?$

$475 \times 5 = ?$

$? = 2375$

S77. Ans.(e)

Sol. $9 \times 25 + 1225 + 150 = (?)^2$

$225 + 1225 + 150 = (?)^2$

$? = \sqrt{1600}$

$? = 40$

S78. Ans.(a)

Sol. $\frac{27}{4} + \frac{21}{5} - \frac{63}{8} = ? + \frac{17}{10}$

$? = \frac{27}{4} - \frac{63}{8} + \frac{21}{5} - \frac{17}{10}$

$? = 1\frac{3}{8}$

S79. Ans.(c)

Sol. $\sqrt{\frac{4}{5}} \text{ of } (? + 60) = 10$

$\frac{4}{5} \text{ of } (? + 60) = 100$

$? + 60 = 125$

$? = 65$

S80. Ans.(b)

Sol. $750 - 2200 + 2700 = ?$

$? = 1250$

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