# 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)**

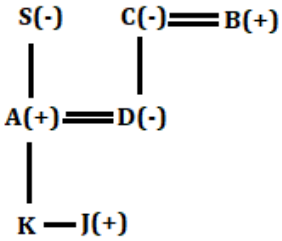
**Solutions (11-15):**

| 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)**

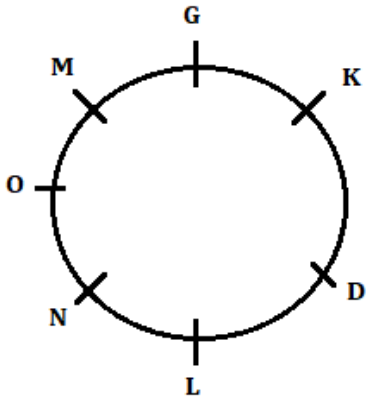
**Solutions (16-18):**




**S16. Ans.(c)**
**S17. Ans.(d)**
**S18. Ans.(e)**

**S19. Ans.(d)**

**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):**

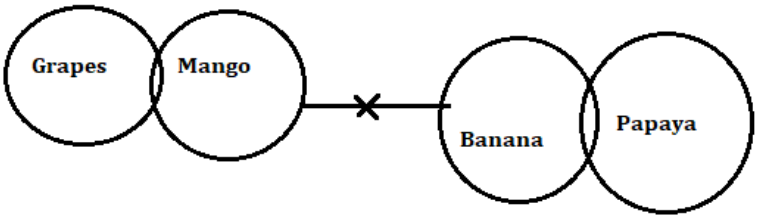
| Floor | Persons |
|---|---|
| 7 | A |
| 6 | F |
| 5 | C |
| 4 | E |
| 3 | G |
| 2 | B |
| 1 | D |

**S31. Ans.(b)**
**S32. Ans.(e)**
**S33. Ans.(c)**
**S34. Ans.(d)**

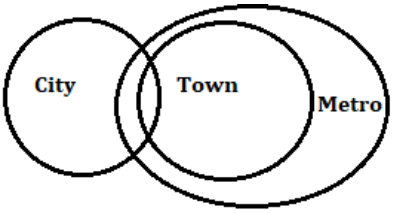
**S35. Ans.(b)**

**Solutions (36-39):**

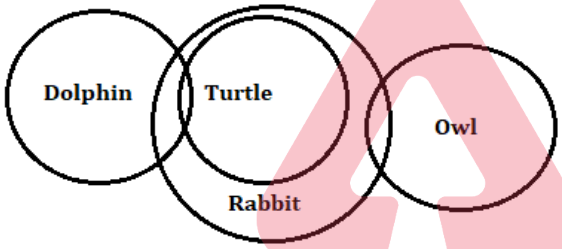
**S36. Ans.(c)**
**Sol.**




**S37. Ans.(a)**
**Sol.**

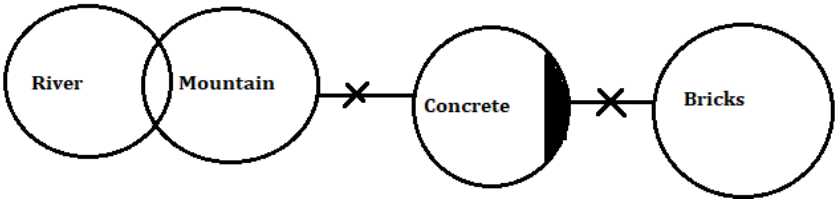



**S38. Ans.(c)**
**Sol.**






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

**S42. Ans.(e)**

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

ATQ –

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

$10x = 20$

$x = 2$ cm

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

**S43. Ans.(a)**

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

**S44. Ans.(d)**

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

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

$12x = 210$

$x = 17.5$ 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-

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

**S48. Ans.(b)**

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

$y = 160 \times \frac{3}{10} = 48$ 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

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

$D = 5(x-3) - - - - - (i)$

And,

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

$D = 2(x+3) - - - - (ii)$

From (i) and (ii)

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

$5x - 15 = 2x + 6$

$3x = 21 \Rightarrow x = 7\ km/hr$

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

**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) → 6 days

2 → 6

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

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 = **30**

**S52. Ans.(c)**

**Sol.** Pattern of series –

67 + 31 = 98

98 + 31 = 129

129 + 31 = 160

?= 160 + 31 = **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 –
$12 + 2^2 = 16$
$16 + 3^2 = 25$
$25 + 4^2 = 41$
$?= 41 + 5^2 = \mathbf{66}$
$66 + 6^2 = 102$

**S55. Ans.(b)**
**Sol.** Pattern of series –
$15 + 5 = 20$
$20 + 5 = 25$
$25 + 5 = 30$
$?= 30 + 5 = \mathbf{35}$
$35 + 5 = 40$



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

**S57. Ans.(e)**
**Sol.** Required average = $\frac{96+80+118}{3} = 98$

**S58. Ans.(c)**
**Sol.** Required ratio = 72 : 84 = 6 : 7

**S59. Ans.(c)**
**Sol.** Required difference = (118 – 68) = 50

**S60. Ans.(a)**
**Sol.** Required sum = (68+112+96)= 276

**S61. Ans.(b)**
**Sol.** Required difference = $50 \times \frac{3}{5} - 40 \times \frac{5}{8} = 30 - 25 = 5$ kg

**S62. Ans.(d)**
**Sol.** Required ratio = 60 : 90 = 2 : 3

**S63. Ans.(a)**
**Sol.** Total dry Apricot sold by shop = $80 \times \frac{150}{100} \times \frac{60}{160} = 45$ kg

**S64. Ans.(b)**
**Sol.** Required percentage = $\frac{(60+40)-80}{80} \times 100 = 25\%$

**S65. Ans.(d)**
**Sol.** Required difference = $(50 + 90) - (80 + 40) = 20$ 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.** ? = 37.5×14+800 –$(26)^2$+136
?= 525+800-676+136
?=1325-540
? =785

**S73. Ans.(c)**
**Sol.** 3.5 × 18 –38 = $(?)^2$
63 – 38 = $(?)^2$
25 = $(?)^2$
? = 5

**S74. Ans.(b)**
**Sol.** $? = \frac{2975}{1190}$
? = 2.5

**S75. Ans.(b)**
**Sol.** $\frac{25\div4\times6\times2}{3} = ?$
? = 25

**S76. Ans.(a)**
**Sol.** (390 + 310 – 225) × 5 = ?
(700 – 225) × 5 = ?
475 × 5 = ?
? = 2375

**S77. Ans.(e)**
**Sol.** 9 × 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