

All India Memory Based Mock for RRB PO Prelims 2021 (Solutions)

S1. Ans.(c)

Sol.

2 1 4 5 6 7 3

0 2 2 6 4 8 4

Solutions (2-6):

Floors	Flat-P	Flat-Q
4	D	H
3	G	F
2	C	A
1	B	E

S2. Ans.(b)

S3. Ans.(b)

S4. Ans.(e)

S5. Ans.(d)

S6. Ans.(d)

Solutions (7-11):

Words	Codes
Plan	mn
To	kr/pc
Go	pc/kr
Exam	oj
Easy	ly
Today	si
Your	zm
Make	rk

S7. Ans.(c)

S8. Ans.(d)

S9. Ans.(d)

S10. Ans.(a)

S11. Ans.(c)



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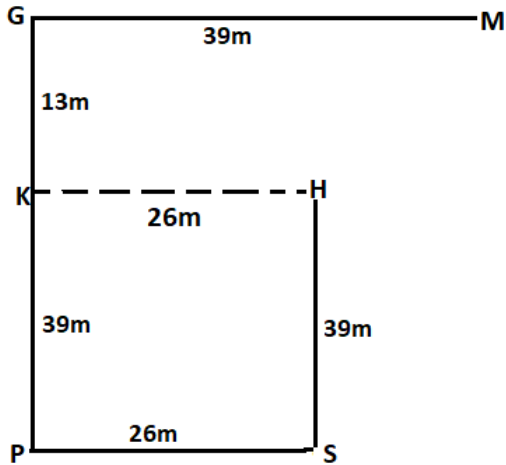
**Bilingual (with eBooks)
12+12 Months Validity**

S12. Ans.(c)

Sol.



Solutions (13-15):

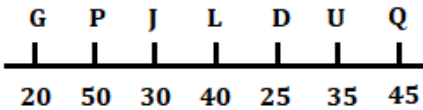


S13. Ans.(e)

S14. Ans.(b)

S15. Ans.(a)

Solutions (16-20):



S16. Ans.(a)

S17. Ans.(d)

S18. Ans.(e)

S19. Ans.(a)

S20. Ans.(e)

S21. Ans.(d)

Sol.

Days	Persons
Monday	Q
Tuesday	U
Wednesday	T
Thursday	S
Friday	P
Saturday	R

Solutions (22-26):

Boxes
T
Q
Y
O
M
X
K
L
P
J

S22. Ans.(d)

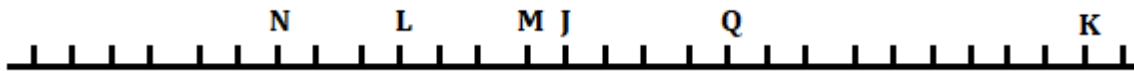
S23. Ans.(e)

S24. Ans.(c)

S25. Ans.(b)

S26. Ans.(d)

Solutions (27-31):



S27. Ans.(c)

S28. Ans.(b)

S29. Ans.(e)

S30. Ans.(b)

S31. Ans.(c)

S32. Ans.(a)

Sol. I. $S > O$ (True)

II. $P > G$ (False)

S33. Ans.(e)

Sol. I. $T < Q$ (True)

II. $T < K$ (True)

S34. Ans.(b)

Sol. I. $V \geq H$ (False)

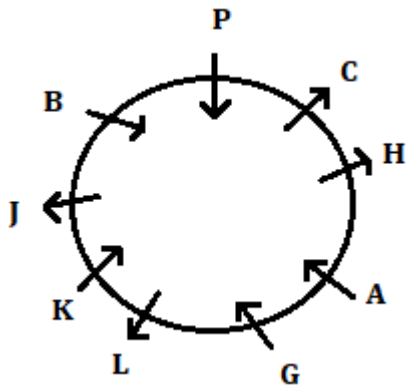
II. $H \leq M$ (True)

S35. Ans.(d)

Sol. I. $B < N$ (False)

II. $L > H$ (False)

Solutions (36-40):



S36. Ans.(d)

S37. Ans.(e)

S38. Ans.(d)

S39. Ans.(e)

S40. Ans.(b)

S41. Ans.(e)

Sol. Required average = $\frac{1}{3} \times \left(5,500 \times \frac{20+16+12}{100} \right) = 880$

S42. Ans.(c)

Sol. Required angle = $\frac{16}{100} \times 360^\circ = 57.6^\circ$

S43. Ans.(e)

Sol. Required number of students = $5,500 \times \frac{10+18}{100} = 1,540$

S44. Ans.(b)

Sol. Students appeared in shift III & IV together of the examination = $5,500 \times \frac{(24+12)}{100} = 1,980$

Students appeared in shift I of the examination = $5,500 \times \frac{20}{100} = 1,100$

Required percentage = $\frac{1980-1100}{1100} \times 100 = 80\%$

Or, required percentage = $\frac{(24+12)-20}{20} \times 100 = 80\%$

S45. Ans.(a)

Sol. Students appeared in shift IV & VI together of the examination = $5,500 \times \frac{12+18}{100} = 1,650$

Students appeared in shift II & III together of the examination = $5,500 \times \frac{16+24}{100} = 2,200$

Required ratio = $\frac{1650}{2200} = 3:4$

Or required ratio = $\frac{(12+18)}{(16+24)} = 3:4$

TEST SERIES

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S46. Ans.(e)

Sol. Students appeared in shift I & VI together of the examination = $5,500 \times \frac{20+18}{100} = 2,090$

Students appeared in shift III & V together of the examination = $5,500 \times \frac{10+24}{100}$
 = 1,870

Required difference = $2090 - 1870 = 220$

S47. Ans.(a)

Sol. ATQ,

Let quantity of milk and water in the vessel initially be $7x$ liters & x liters respectively.

ATQ,

$$\left(7x - 24 \times \frac{7x}{8x}\right) = 56$$

$$x = 11$$

S48. Ans.(d)

Sol. Let time taken by B alone to complete the work be x days.

So, time taken by A alone to complete the same work = $(x - 7.5)$ days

ATQ,

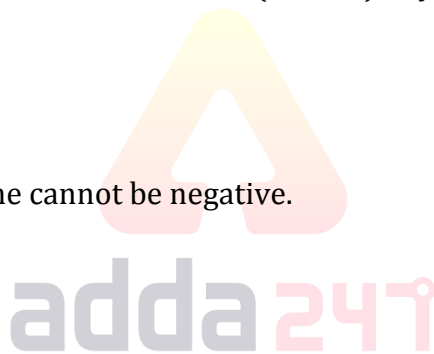
$$\frac{1}{x-7.5} + \frac{1}{x} = \frac{1}{9}$$

$$x = 3, \frac{45}{2}$$

x cannot be 3 as time taken by A alone cannot be negative.

$$\text{Required time} = \frac{1 \times \frac{45}{2}}{\frac{1}{9}}$$

$$= 5 \text{ days}$$

**S49. Ans.(b)**

Sol. Let ages of A & B, 4 years later be $8x$ years & $9x$ years respectively.

ATQ,

$$(8x - 4) + (9x - 4) = 47 \times 2$$

$$17x = 102$$

$$x = 6 \text{ years}$$

Required difference = $9x - 8x = 6$ years

S50. Ans.(a)

Sol. Let total students in the school be $100x$.

So, number of students went on the picnic = $39x$

And, number of boys went on the picnic = $75x \times \frac{32}{100} = 24x$

So, number of girls went on the picnic = $39x - 24x = 15x$

Required percentage = $\frac{15x}{25x} \times 100 = 60\%$

S51. Ans.(e)

Sol. Total number of students in section A = $\left(240 \times \frac{100}{60}\right) = 400$

Total number of students in section B = $\left(210 \times \frac{100}{70}\right) = 300$

Required difference = $400 - 300 = 100$

S52. Ans.(a)

Sol. I. $x^2 + 9x + 20 = 0$

$$x^2 + 5x + 4x + 20 = 0$$

$$x(x + 5) + 4(x + 5) = 0$$

$$(x + 5)(x + 4) = 0$$

$$x = -4, -5$$

II. $8y^2 - 15y + 7 = 0$

$$8y^2 - 8y - 7y + 7 = 0$$

$$8y(y - 1) - 7(y - 1) = 0$$

$$(y - 1)(8y - 7) = 0$$

$$y = 1, \frac{7}{8}$$

So, $x < y$.

S53. Ans.(b)

Sol. I. $x^2 - 11x + 30 = 0$

$$x^2 - 6x - 5x + 30 = 0$$

$$x(x - 6) - 5(x - 6) = 0$$

$$(x - 6)(x - 5) = 0$$

$$x = 5, 6$$

II. $y^2 + 12y + 36 = 0$

$$y^2 + 6y + 6y + 36 = 0$$

$$y(y + 6) + 6(y + 6) = 0$$

$$(y + 6)(y + 6) = 0$$

$$y = -6$$

So, $x > y$.

S54. Ans.(c)

Sol. I. $x^2 + 13x + 40 = 0$

$$x^2 + 8x + 5x + 40 = 0$$

$$x(x + 8) + 5(x + 8) = 0$$

$$(x + 8)(x + 5) = 0$$

$$x = -8, -5$$

II. $y^2 + 7y + 10 = 0$

$$y^2 + 5y + 2y + 10 = 0$$

$$y(y + 5) + 2(y + 5) = 0$$

$$(y + 5)(y + 2) = 0$$

$$y = -2, -5$$

So, $x \leq y$.



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S55. Ans.(b)

Sol. I. $x^2 - 20x + 91 = 0$

$x^2 - 13x - 7x + 91 = 0$

$x(x - 13) - 7(x - 13) = 0$

$(x - 13)(x - 7) = 0$

$x = 7, 13$

II. $y^2 + 16y + 63 = 0$

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

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

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

$y = -7, -9$

So, $x > y$.

S56. Ans.(e)

Sol. I. $x^2 - x - 12 = 0$

$x^2 - 4x + 3x - 12 = 0$

$x(x - 4) + 3(x - 4) = 0$

$(x - 4)(x + 3) = 0$

$x = 4, -3$

II. $y^2 + 5y + 6 = 0$

$y^2 + 3y + 2y + 6 = 0$

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

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

$y = -2, -3$

So, *no relation*.

**S57. Ans.(b)**

Sol. Required number of students = $(700 \times 3) - (720 + 900) = 480$

S58. Ans.(c)

Sol. Number of girls in school - A & B together in 2000 = $450 + 180 = 630$

Total number of students in school - B & C together in 2000 = $600 + 400 = 1000$

Required percentage = $\frac{1000-630}{1000} \times 100 = 37\%$

S59. Ans.(a)

Sol. Required number of boys = $(720 - 360) + (360 - 180) + (450 - 270)$

$= 360 + 180 + 180$

$= 720$

S60. Ans.(b)

Sol. Average number of students in school – A, B & C in 1999 = $\frac{1}{3} \times (720 + 360 + 450) = 510$

Required percentage = $\frac{510}{600} \times 100 = 85\%$

S61. Ans.(d)

Sol. Required ratio = $\frac{600-180}{400-120}$

= $\frac{420}{280} = 3:2$

S62. Ans.(b)

Sol. Total number of girls in school – A, B & C together in 1999 = $(360 + 180 + 270) = 810$

Total number of girls in school – A, B & C together in 2000 = $(450 + 180 + 120) = 750$

Required difference = $810 - 750 = 60$

S63. Ans.(a)

Sol. Quantity I:

Required profit = $450 \times \frac{20}{120} = \text{Rs.}75$

Quantity II:

Required cost price = $84 \times \frac{100}{120} = \text{Rs.}70$

So, Quantity I > Quantity II.

S64. Ans.(b)

Sol. Quantity I:

Required female = $1152 \times \frac{100}{30} \times \frac{40}{60} \times \frac{100-25}{100} = 1920$

Quantity II:

1940

So, Quantity I < Quantity II.

S65. Ans.(b)

Sol. Quantity I:

ATQ,

$\frac{P \times 12 \times 2}{100} = 1200$

$P = 5,000 \text{ Rs.}$

Quantity II:

Rs.6,000

So, Quantity I < Quantity II.



S66. Ans.(e)

Sol. Let breadth of the field be x m.

So, length of the field = $(x + 4)$ m

Area of a rectangular field = $\frac{288}{3} = 96 \text{ m}^2$

ATQ, $x(x + 4) = 96$

$$x^2 + 4x - 96 = 0$$

$$x^2 + 12x - 8x - 96 = 0$$

$$x(x + 12) - 8(x + 12) = 0$$

$$(x + 12)(x - 8) = 0$$

$$x = 8, -12$$

Quantity I:

Length of rectangular field = 12m

Quantity II: 12 m

So, Quantity I = Quantity II.

S67. Ans.(b)**Sol. Quantity I:**

Let present age of Prashant be x years.

So, present age of Shivam = $(x + 8)$ years

$$x + 8 + x = 32$$

$$x = 12 \text{ years}$$

Quantity II:

15 years

So, Quantity I < Quantity II.

**S68. Ans.(a)**

Sol. Profit sharing ratio of A, B & C = $(4000 \times 12) : (4000 + 1000) \times 12 : (3000 \times 4)$

$$= 48000 : 60000 : 12000$$

$$= 4 : 5 : 1$$

Let total profit be Rs. P

ATQ,

$$\frac{1}{(4 + 5 + 1)} \times P = 700$$

$$P = \text{Rs. } 7000$$

S69. Ans.(d)

Sol. Let speed of train be 'V' m/sec'

And let length of platform be 'l' meters.

ATQ,

$$\frac{l + 440}{80} = V \dots \text{(i)}$$

And,

$$\frac{440}{22} = V + 3$$

$$\Rightarrow V = 17 \dots \text{(ii)}$$

Put value of (ii) in (i),

$$\frac{l + 440}{80} = 17$$

$$l = 1360 - 440$$

$$l = 920 \text{ m}$$

S70. Ans.(d)

Sol. ATQ,

$$2160 = 3600 \times \frac{75}{100} \times \frac{(100 - x)}{100}$$

$$2160 = 2700 - 27x$$

$$27x = 540$$

$$x = 20$$

$$\text{So, required amount} = 2160 \times \frac{100}{120} = \text{Rs. } 1800$$

S71. Ans.(e)

Sol. Possible cases = 1 green ball or 2 green balls

$$\text{Required probability} = \frac{{}^5C_1 \times {}^{10}C_1}{{}^{15}C_2} + \frac{{}^5C_2}{{}^{15}C_2}$$

$$= \frac{5 \times 10}{{}^{15}C_2} + \frac{10}{{}^{15}C_2} = \frac{50}{105} + \frac{10}{105}$$

$$= \frac{60}{105} = \frac{4}{7}$$

S72. Ans.(a)

Sol. Let speed of stream be x km/hr.

So, speed of boat in still water = $6x$ km/hr.

ATQ,

$$\frac{210}{7} = (6x - x)$$

$$\Rightarrow 5x = 30$$

$$x = 6 \text{ km/hr}$$

So, required downstream speed of boat = $(6x + x) = 7x = 42 \text{ km/hr}$

S73. Ans.(b)

Sol. Let width of rectangle A be '4x meters'

So, length of rectangle A = $4x \times \frac{125}{100} = 5x$ meters

ATQ,

$$4x \times 5x = 1280$$

$$20x^2 = 1280$$

$$x^2 = 64$$

$$x = 8$$

Hence, side of square = $2 \times 8 = 16 \text{ cm}$

Required perimeter = $4 \times 16 = 64 \text{ cm}$



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S74. Ans.(d)

$$\begin{aligned} \text{Sol. Required average} &= 53 - \frac{[(49+57)-(45+52)]}{45} \\ &= 53 - \frac{9}{45} \\ &= 52.80 \text{ kg} \end{aligned}$$

S75. Ans.(e)**Sol.** Missing number = 5760

Pattern of series -

$1.5 \times 2 = 3$

$3 \times 4 = 12$

$12 \times 6 = 72$

$72 \times 8 = 576$

$576 \times 10 = 5760$

S76. Ans.(b)**Sol.** Missing number = 56

Pattern of series -

$80 - 14 = 66$

$66 + 19 = 85$

$85 - 24 = 61$

$61 + 29 = 90$

$90 - 34 = 56$

**S77. Ans.(b)****Sol.** Missing number = 83

Pattern of series -

$163 - 80 = 83$

$83 - 40 = 43$

$43 - 20 = 23$

$23 - 10 = 13$

$13 - 5 = 8$

S78. Ans.(d)**Sol.** Missing number = 210

Pattern of series -

$$\begin{array}{cccccc} 150 & 152 & 157 & 167 & 184 & 210 \\ \underbrace{\hspace{1.5em}}_{+2} & \underbrace{\hspace{1.5em}}_{+5} & \underbrace{\hspace{1.5em}}_{+10} & \underbrace{\hspace{1.5em}}_{+17} & \underbrace{\hspace{1.5em}}_{+26} & \\ & \underbrace{\hspace{1.5em}}_{+3} & \underbrace{\hspace{1.5em}}_{+5} & \underbrace{\hspace{1.5em}}_{+7} & \underbrace{\hspace{1.5em}}_{+9} & \end{array}$$

S79. Ans.(a)

Sol. Missing number = 95

Pattern of series –

$$3.5 \times 1 - 1 = 2.5$$

$$2.5 \times 2 - 2 = 3$$

$$3 \times 3 - 3 = 6$$

$$6 \times 4 - 4 = 20$$

$$20 \times 5 - 5 = 95$$

S80. Ans.(b)

Sol. Missing number = 2100

Pattern of series –

$$?= 6300 \div 3 = \mathbf{2100}$$

$$2100 \div 4 = 525$$

$$525 \div 5 = 105$$

$$105 \div 6 = 17.5$$

$$17.5 \div 7 = 2.5$$

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