

Quantitative Aptitude Sunday Mega Quiz for RRB NTPC – (Solutions)

S1. Ans.(b)

Sol.

$$\because x + \frac{1}{x} = 2$$

$$\Rightarrow x = 1$$

S2. Ans.(d)

Sol.

$$l \times b = 60 \quad \dots(i)$$

$$l + b = 17 \quad \dots(ii)$$

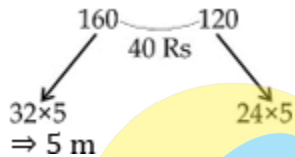
from (i) & (ii)

$$l = 12, b = 5$$

diagonal = 13 cm

S3. Ans.(b)

Sol.



S4. Ans.(c)

Sol.

$$A : B$$

$$\frac{1}{3} : \frac{1}{2}$$

$$\Rightarrow 2 : 3 \quad \text{---} \quad 5 \times 192 = 960$$

Difference of profit = 192

S5. Ans.(b)

Sol.

Total of 19 members = 304000

$$\Rightarrow \text{total of 20 members} = 304000 + 20000 = 324000$$

$$\text{Avg} = \frac{324000}{20} = 16200$$

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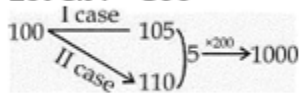
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S6. Ans.(a)

Sol.

Let C.P. = 100



\Rightarrow C.P. = 100 \times 200 = 20000 Rs.

S7. Ans.(d)

Sol.

$$\frac{10 - 9}{9} \times 100 = 11 \frac{1}{9} \%$$

S8. Ans.(d)

Sol.

$$S = \frac{50+L}{14} \quad \dots(i)$$

$$S = \frac{L}{10} \quad \dots(ii)$$

from (i) & (ii)

$$L = 125 \text{ \& } S = 12.5 \text{ m/s} = 45 \text{ km/hr.}$$

S9. Ans.(c)

Sol. 90°

S10. Ans.(b)

Sol. in 4 years

S11. Ans.(d)

Sol.

Let speed of boat in still water = v_b

speed of current in still water = v_s

Given,

$$v_b + v_s = 7 \text{ km/hr} \left(v = \frac{35}{5} = 7 \right)$$

$$v_b - v_s = 5 \text{ km/hr} \left(v = \frac{35}{7} = 5 \right)$$

On solving, $v_b = 6$

S12. Ans.(b)

Sol.

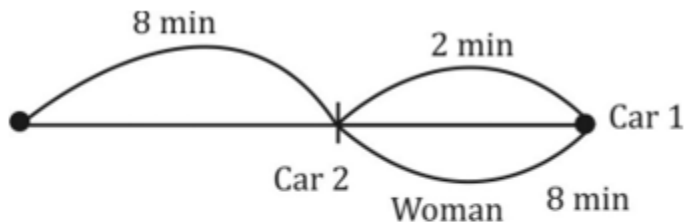
$$\left(\frac{x}{10} + \frac{x}{30} + \frac{x}{8} \right) = \frac{15.5}{60}$$

$$X = \frac{155}{600} \times \frac{120}{31} = 1 \text{ km}$$

\therefore Total distance = $3x = 3 \times 1 = 3 \text{ km}$

S13. Ans.(a)

Sol.



Woman	:	car
Time	8	: 2
Time	4	: 1
Speed	5 ← (1)	: (4) → 20

S14. Ans.(a)

Sol.

$$\text{Total time} = \frac{135}{12-3} + \frac{135}{12+3} = 15 + 9 = 24 \text{ hrs}$$

S15. Ans.(c)

Sol.

$$\text{Speed of M} = \frac{120}{2.5} = 48 \text{ kmph}$$
$$\therefore \text{speed of W} = \frac{48}{2} = 24 \text{ kmph}$$

S16. Ans.(a)

Sol.

$$\text{Speed of the train} = \frac{600+1000}{80} = 20 \text{ m/s}$$

S17. Ans.(d)

Sol.

let Car-I covers 50 km in 1 hour
Atq, Car-II covers 25 km in 2 hour and 50 km in 4 hour
Required ratio of speed = 4:1

S18. Ans.(d)

Sol.

$$\text{Speed} = \frac{600}{5 \times 60} \times \frac{18}{5} = 7.2 \text{ kmph}$$

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S19. Ans.(d)

Sol.

Distance covered in 45 min. is 45km

$$\text{Required speed} = \frac{45}{40} \times 60 = 67.5 \text{ kmph}$$

S20. Ans.(c)

Sol.

$$\text{Required time} = 450 \times \frac{3}{1500} \times 60 = 54 \text{ sec}$$

S21. Ans.(b)

Sol.

$$10 \times \text{C.P.} = 7 \times \text{S.P.}$$

$$\Rightarrow \frac{\text{C.P.}}{\text{S.P.}} = \frac{7}{10} \left. \begin{array}{l} \uparrow \\ \downarrow \end{array} \right) +3(\text{Gain})$$

So, there is gain in dealing

$$\text{Required percent} = \frac{3}{7} \times 100 = 42\frac{6}{7}\%$$

S22. Ans.(a)

Sol.

Let the man buy in all 30 oranges.

$$\therefore \text{C.P of 15 oranges at 3 for Rs. 40} = \frac{40}{3} \times 15 = \text{Rs. 200}$$

$$\text{Again, C.P of 15 oranges at 5 for Rs. 60} = \frac{60}{5} \times 15 = \text{Rs. 180}$$

$$\therefore \text{Total C.P} = \text{Rs. } (200 + 180) = \text{Rs. 380}$$

$$\text{S.P. of 30 oranges} = \frac{50}{3} \times 30 = \text{Rs. 500}$$

$$\therefore \text{Profit} = \text{Rs. } (500 - 380) = \text{Rs. 120}$$

$$\therefore \text{P}\% = \frac{120}{380} \times 100$$

$$= 31.58\% \simeq 32\%$$

S23. Ans.(c)

Sol.

C.P. of article = Rs. 100 (let)

\therefore Marked price = Rs. 120

$$\therefore \text{S.P} = \frac{120 \times 90}{100} = \text{Rs. 108}$$

\therefore If S.P. = Rs. 108,

C.P = Rs. 100

\therefore If S.P. = Rs. 216

$$\text{C.P.} = \frac{100}{108} \times 216 = \text{Rs. 200}$$

S24. Ans.(a)

Sol.

	SP(1st)	:	SP(2nd)
Price	80	:	120
	2	:	3
Quantity	3	:	2
	($\times 4$)		($\times 4$)
	12 oranges		8 oranges

$\left[\text{Price} \propto \frac{1}{\text{Quantity}} \right]$

S25. Ans.(a)

Sol.

Let CP = 100

\therefore MP = 130

Now, SP after 15% discount

$$= 130 \times \frac{85}{100} = 110.5$$

\Rightarrow 110.5 unit \rightarrow Rs. 910

\therefore CP (100 unit) \rightarrow Rs. 823.5

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