

Quant Mega Quiz for RRB NTPC – (Solutions)

S1. Ans.(a)

Sol.

C.P. of 36 books=S.P. of 30 books

$$\text{Profit \%} = \frac{6}{30} \times 100 = 20\%$$

S2. Ans.(a)

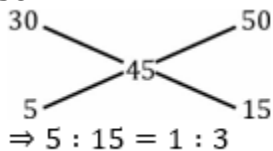
Sol.

C.P. of 12+3=15 books=1800 Rs.

$$\therefore \text{Cost price per book} = \frac{1800}{15} = 120 \text{ Rs.}$$

S3. Ans. (b)

Sol.



S4. Ans. (c)

Sol.

$$9x^2 + 4x^2 + 25x^2 = 1862$$

$$38x^2 = 1862$$

$$x = 7$$

$$2x = 14$$

S5. Ans. (c)

Sol.

$$8 \times 15 + x \times 6 = (8 + x) \times 10.8$$

$$120 + 6x = 10.8x + 86.4$$

$$4.8x = 33.6$$

$$x = 7$$

S6. Ans. (c)

Sol.

$$\text{Sum of 40 observation} = 40 \times 28 = 1120$$

$$\& \text{ Difference} = 32$$

$$\text{So, } 1120 + 32 = 1152$$

$$\text{Correct Avg. } \frac{1152}{40} = 28.8$$

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S7. Ans. (d)

Sol.

$$P + \frac{P \times 6 \times t}{100} = p + \frac{P \times 4 \times (t+2)}{100}, 6t = 4t + 8$$

$$t = 4$$

$$P + \frac{P \times 6 \times 4}{100} = 18600$$

$$P = 15000$$

Total amount, $2P = 30000$ Rs.

S8. Ans. (c);

Sol.

$$\Rightarrow (P \times R \times T) / 100 = (2/5)P$$

$$T = 5 \text{ Years}$$

S9. Ans. (d)

Sol.

In such type of transactions there is always a loss of

$$= \frac{x^2}{100} \%$$

$$\therefore \% \text{ loss} = \frac{20^2}{100} = 4\%$$

Total SP = Rs 28000

Loss% = 4%

$$\text{So, total CP} = 28000 \times \frac{100}{96} = \text{Rs } 29166.67$$

Now, he marked up their prices by 25%

$$\text{New MP} = 29166.67 \times \frac{125}{100} = \text{Rs } 36458.34$$

Now, discount = 10%

$$\text{New SP} = 36458.34 \times \frac{90}{100} = \text{Rs } 32812.5$$

$$\text{Overall Profit} = \frac{32812.5 - 29166.67}{29166.67} \times 100 = 12.5\%$$

S10. Ans. (c)

Sol.

$$\begin{aligned} \text{Reqd. difference} &= 1700 \times \\ &\frac{(100-26)}{100} \times \frac{(100-4)}{100} - 1700 \times \frac{(100-35)}{100} \\ &= 102.68 \end{aligned}$$

S11. Ans. (a)

Sol.

$$\begin{array}{l} A + B \text{ --- } 6 \text{ } \left. \begin{array}{l} 3 \\ 2 \end{array} \right\} 18 \\ A \text{ --- } 9 \end{array}$$

$$\text{Efficiency of B} = 3 - 2 = 1$$

$$\therefore B \text{ alone can do it} = \frac{18}{1} = 18 \text{ days}$$

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S12. Ans. (a)

Sol.

let v = speed of boat in still water and

u = speed of current.

$$v + u = 18 \text{ km/h}$$

$$v - u = 12 \text{ km/h}$$

$$\Rightarrow v = 15 \text{ km/h}$$

S13. Ans. (b)

Sol.

Let the number be x .

$$x + \frac{8}{100} \times x = 810$$

$$\Rightarrow x \times \frac{108}{100} = 810$$

$$\Rightarrow x = \frac{810 \times 100}{108} = 750$$

S14. Ans. (c)

Sol.

$$\frac{2}{11} < \frac{1}{5}$$

S15. Ans. (c)

Sol.

$$A : B$$

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

$$\Rightarrow 2 : 3 \xrightarrow{\times 192} 360 : 540$$

$$\text{Difference of profit} = (3 - 2) \times 192 = \text{Rs}192$$

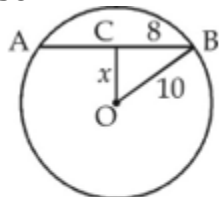
S16. Ans. (a)

Sol.

$$\begin{aligned} \text{Time} &= \frac{\text{Distance}}{\text{speed}} \\ &= \frac{100\text{m}}{40 \times \frac{5}{18} \text{ m/sec}} \\ &= \frac{100 \times 18}{40 \times 5} = 9 \text{ sec.} \end{aligned}$$

S17. Ans. (b)

Sol.



$$10^2 = 8^2 + x^2$$

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

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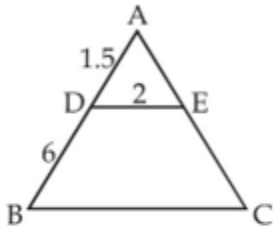
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S18. Ans. (c)

Sol.



$$\triangle ABC \approx \triangle ADE$$

$$\frac{AB}{AD} = \frac{BC}{DE}$$

$$\frac{7.5}{1.5} = \frac{BC}{2}$$

$$BC = 10 \text{ cm}$$

S19. Ans. (d)

Sol.

$$\begin{aligned} & \sqrt{44100} + 350 \times \frac{2}{5} \\ & = 210 + 70 \times 2 = 350 \end{aligned}$$

S20. Ans. (b)

Sol.

$$\% \text{ of rich people} = 100 - 40 = 60\%$$

$$\text{Number of rich people} = 60\% \text{ of } 30000 = 18000$$

S21. Ans. (a)

Sol.

$$\text{Speed} = \frac{189}{3.5} \times \frac{5}{18} = 15 \text{ m/s}$$

S22. Ans. (a)

Sol.

$$200\% \text{ is } 90$$

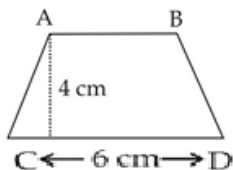
$$\Rightarrow 40\% = \frac{90 \times 40}{200} = \frac{90}{5} = 18\%$$

S23. Ans. (a)

Sol. the centroid of a triangle is the point where the medians meet.

S24. Ans. (b)

Sol.



so, area of ABCD

$$= \frac{1}{2} \times (\text{sum of parallel side}) \times \text{height}$$

$$16 = \frac{1}{2} (6 + x) \times 4$$

$$8 = 6 + x$$

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

S25. Ans. (b)

Sol.

$$\text{Interest} = \frac{P \times r \times t}{100}$$

$$\frac{2}{5} P = \frac{P \times r \times 5}{100}$$

$$r = 8\%$$

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