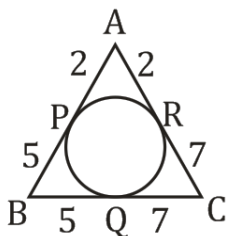


Reasoning Mega Quiz for RRB NTPC (Solutions)

S1. Ans.(b)

Sol.



As we know,

$$AP = AR$$

$$BP = BQ$$

$$CQ = CR$$

$$AB = 7 \text{ cm } BC = 12 \text{ cm } AC = 9 \text{ cm}$$

$$\text{Area of } \Delta = \sqrt{14(7)(2)(5)} = 14\sqrt{5} \text{ cm}^2$$

S2. Ans.(a)

Sol.

Speed	Time
24	2
48	4
72	6
96	8

-24 (↑) 96 6 (↓) +2

∴ Original speed = 96 km/hr

$$33\frac{1}{3}\% \text{ of original speed} = 96 \times \frac{1}{3} = 32 \text{ km/hr}$$

S3. Ans.(b)

Sol.

A	B	
3	5	
5×2	6×2) 7 — 14 1 — 2
10	12	

$$\text{Present Age's of A and B} \begin{array}{cc} \text{A} & \text{B} \\ (3 \times 2) + 4 & (5 \times 2) + 4 \\ 10 & 14 \end{array}$$

Sum of present ages of A & B = 24.

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S4. Ans.(c)

Sol.

CP	SP	P%
100	320	220
$\left. \begin{array}{l} \\ +25\% \end{array} \right\}$		
125	320	156

$\left. \begin{array}{l} \\ \\ \\ \end{array} \right\} \frac{64}{220} \times 100 = 29\%$

S5. Ans.(b)

Sol. 78y is divisible by 8, So y = 4

$$\frac{9 + 8 + 5 + x + 3 + 6 + 7 + 8 + 4}{9} = \frac{50 + x}{9}$$

So, x = 4

x + y = 8

S6. Ans.(a)

Sol. A and C = $\frac{39 \times 17}{11} \times \frac{266}{300} = \frac{176358}{3300} = 53.4$ days

S7. Ans.(c)

Sol. $xy + yz + zx = \frac{36-30}{2} = 3$

$$x^3 + y^3 + z^3 + 30 = 6 \left((6)^2 - 3(3) \right)$$

$$x^3 + y^3 + z^3 = 27 \times 6 - 30$$

$$x^3 + y^3 + z^3 = 132$$

S8. Ans.(d)

Sol. These sides are the Pythagorean triplets

So, R = $\frac{169}{2} = 84.5$ cm

S9. Ans.(d)

Sol. $\frac{1}{A} = \frac{\sqrt{71} + \sqrt{69}}{\sqrt{71} - \sqrt{69}} \times \frac{\sqrt{71} + \sqrt{69}}{\sqrt{71} + \sqrt{69}}$
 $= 70 + \sqrt{4899}$

S10. Ans.(c)

Sol. 12% = $\frac{3}{25}$

radius 625 → 784

height 784 → 625

volume \perp : 1

Req. % = $\frac{159}{784} \times 100 = 20.28\%$

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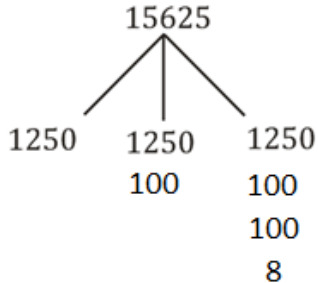
English

S11. Ans.(c)

Sol. = $6 \div 2 + 4 \times (1) \times 16$
 $= 3 + 64 = 67$

S12. Ans.(d)

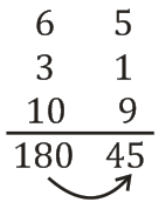
Sol. Rate of interest = 8% for 8 monthly compounded $8\% = \frac{2}{25}$



CI = 4058

S13. Ans.(c)

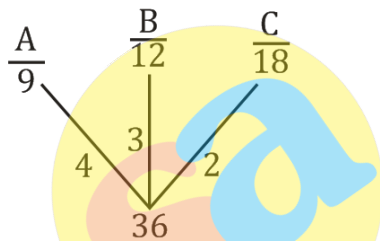
Sol.



Req. % = $\frac{135}{180} \times 100 = 75\%$

S14. Ans.(b)

Sol.

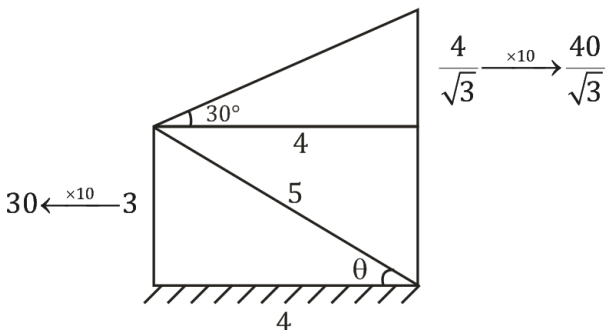


Filled in 2 hours = $2 \times 5 = 10$

Req. time = $\frac{26}{1} = 26$ hours

S15. Ans.(b)

Sol.



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Previous Year Questions

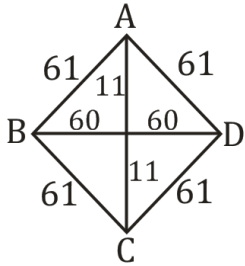
21 Full Length Mocks

Validity : 12 Months

$$\begin{aligned} \text{Total height} &= 30 + \frac{40}{\sqrt{3}} = 10 \left(\frac{3\sqrt{3}+4}{\sqrt{3}} \right) \\ &= \frac{17.3}{3} (3 \times 1.73 + 4) \\ &= \frac{17.3}{3} (5.19 + 4) \\ &= 5.76 \times 9.19 \\ &= 52.99 \end{aligned}$$

S16. Ans.(b)

Sol.



$$\begin{aligned} \text{Area} &= \frac{1}{2} \times 120 \times 22 = 60 \times 22 \\ &= 1320 \text{ cm}^2 \end{aligned}$$

S17. Ans.(c)

$$\begin{aligned} \text{Sol. put } \theta &= 30^\circ \\ &= \sec 30^\circ + \tan 30^\circ \\ &= \frac{2}{\sqrt{3}} + \frac{1}{\sqrt{3}} = \sqrt{3} \end{aligned}$$

S18. Ans.(a)

$$\begin{aligned} \text{Sol. } &\frac{35}{6} + \left[\frac{8}{3} - \left\{ \frac{15}{4} \times \frac{19}{5} \times \frac{2}{19} \right\} \right] \\ &\frac{35}{6} + \frac{8}{3} - \frac{3}{2} \\ &\frac{35+16-9}{6} = \frac{42}{6} = 7 \end{aligned}$$

S19. Ans.(b)

$$\begin{aligned} \text{Sol. } (2\alpha + \beta) + (3\alpha - \beta) &= 90 \\ 5\alpha &= 90 \\ \alpha &= 18^\circ \end{aligned}$$

S20. Ans.(c)

$$\begin{aligned} \text{Sol. } x^2 &= 135 \times 540 \\ x &= \sqrt{135 \times 540} \\ &= 270 \end{aligned}$$

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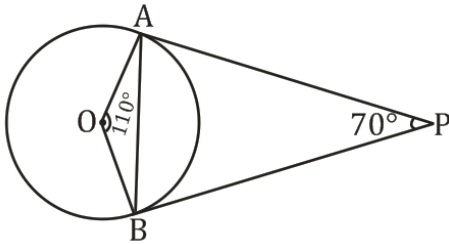
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35+ TOTAL TESTS

Validity : 12 Months

S21. Ans.(b)

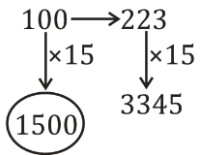
Sol.



$$\angle OAB = \frac{70}{2} = 35^\circ$$

S22. Ans.(c)

Sol.

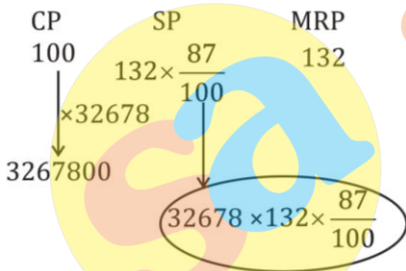


S23. Ans.(c)

Sol. Req. Avg. = $\frac{31+37+41+43+47+53+59}{7}$
 $= \frac{311}{7} = 44.43$

S24. Ans.(b)

Sol.



⇒ Selling price = Rs. 3752741.52
or check by unit digit.

S25. Ans.(b)

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