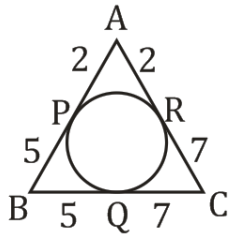


SSC Quant [Advanced Level]- 10th November (Solutions)

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
-24	96	8

∴ 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	
		) 7—14
5 <sub>x2</sub>	:	6 <sub>x2</sub>
10	:	12
		) 1—2

Present Age's of A and B —	(3 × 2) + 4	(5 × 2) + 4
	10	14

Sum of present ages of A & B = 24.

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S4. Ans.(c)

Sol.

CP	SP	P%	) $\frac{64}{220} \times 100 = 29\%$
100	320	220	
125	320	156	

| +25%

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

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

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

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

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 ⊥ : 1

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

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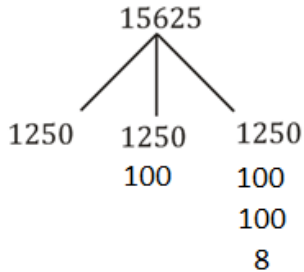
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S11. Ans.(c)

$$\begin{aligned} \text{Sol.} &= 6 \div 2 + 4 \times (1) \times 16 \\ &= 3 + 64 \\ &= 67 \end{aligned}$$

S12. Ans.(d)

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



CI = 4058

S13. Ans.(c)

Sol.

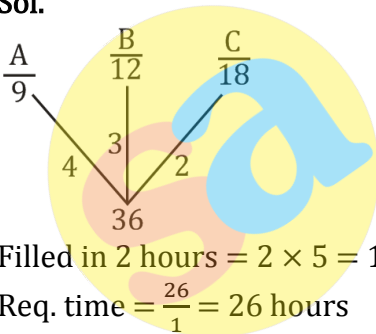
$$\begin{array}{r} 6 \quad 5 \\ 3 \quad 1 \\ \hline 10 \quad 9 \\ \hline 180 \quad 45 \end{array}$$

↪

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

S14. Ans.(b)

Sol.

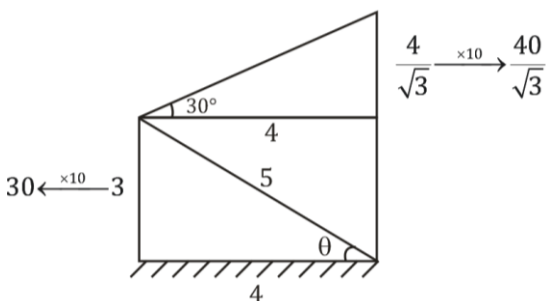


Filled in 2 hours =  $2 \times 5 = 10$

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

S15. Ans.(b)

Sol.



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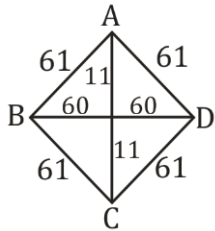
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$$\begin{aligned}
 \text{Total height} &= 30 + \frac{40}{\sqrt{3}} = 10 \left( \frac{3\sqrt{3} + 4}{\sqrt{3}} \right) \\
 &= \frac{17.3}{3} (3 \times 1.73 + 4) \\
 &= \frac{17.3}{3} (5.19 + 4) \\
 &= 5.76 \times 9.19 \\
 &= 52.99
 \end{aligned}$$

**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)**

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

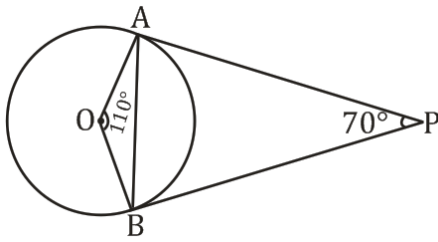
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S21. Ans.(b)

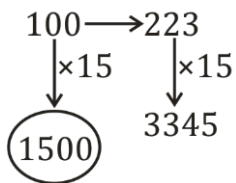
Sol.



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

S22. Ans.(c)

Sol.

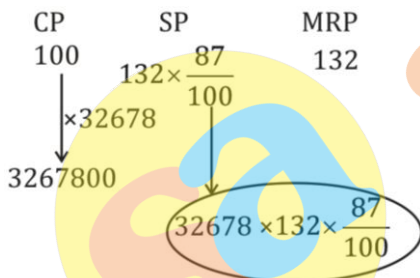


S23. Ans.(c)

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

S24. Ans.(b)

Sol.



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S25. Ans.(b)

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