

Q1. In a  $\Delta ABC$ , a circle is inscribed. It touches the sides AB, BC, and AC at the points P, Q and R respectively. If  $AP = 2\text{cm}$ ,  $BQ = 5\text{cm}$  and  $CR = 7\text{cm}$ . Find the area of triangle

- (a)  $12\sqrt{3}\text{cm}^2$
- (b)  $14\sqrt{5}\text{cm}^2$
- (c)  $13\text{cm}^2$
- (d)  $16\sqrt{7}\text{cm}^2$

Q2. A train covers a distance of 576 km at a certain speed. If the speed is decreased by 24 km/hr, it will take 2 hours more to cover the same distance. Find  $33\frac{1}{3}\%$  of original speed.

- (a) 32 km/hr
- (b) 24 km/hr
- (c) 38 km/hr
- (d) 28 km/hr

Q3. Four years ago, the ratio of ages of A and B was 3 : 5. Ten years from now, the ratio of the ages of A and B will be 5 : 6. Find the sum of present ages?

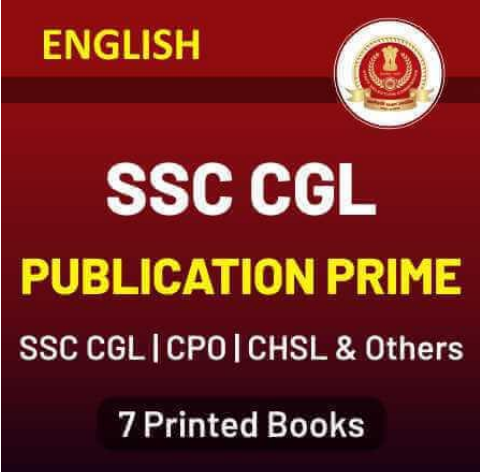
- (a) 32 years
- (b) 24 years
- (c) 26 years
- (d) 22 years

Q4. For an article, the profit is 220% of the cost price. If the cost price increases by 25% but selling price remains same. Then original profit percentage (approx.)?


- (a) 22%
- (b) 26%
- (c) 29%
- (d) 31%

Q5. If a nine digit number  $985x3678y$  is divisible by 72, find the value of  $x + y$

- (a) 4
- (b) 8
- (c) -2
- (d) 6



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Q6. The ratio of efficiencies of A, B, C is 4 : 6 : 7. Working together, they can complete working in 39 days A and C together can complete  $88\frac{2}{3}\%$  of work in how many days? (approx.)

- (a) 53.4 days
- (b) 55.7 days
- (c) 49 days
- (d) 61.8 days

Q7. If  $x + y + z = 6$ ,  $x^2 + y^2 + z^2 = 30$ ,  $xyz = -10$  Find the value of  $x^3 + y^3 + z^3$

- (a) 115
- (b) 124
- (c) 132
- (d) 128

Q8. The Sides of a triangle are 119cm, 120cm, 169cm. Find the circum radius of the triangle?

- (a) 72.8 cm
- (b) 64.3 cm
- (c) 60 cm
- (d) 84.5 cm

Q9. If  $A = \frac{(\sqrt{71} - \sqrt{69})}{(\sqrt{71} + \sqrt{69})}$ , then what is the value of  $1/A$ ?

- (a)  $70 - \sqrt{71}$
- (b)  $70 + 3\sqrt{1633}$
- (c)  $140 + 2\sqrt{4899}$
- (d)  $70 + \sqrt{4899}$

Q10. If the radius of a cylinder is increased by 12% then by how much percent height of cylinder should decrease so volume remains unchanged?

- (a) 15.17%
- (b) 15.70%
- (c) 20.28%
- (d) 20.84%

Q11. Simplify,  $6 \div \frac{1}{6}$  of  $12 + 4 \times \left(\frac{1}{72}$  of  $144 \div 2\right)$  of 16

- (a) 128
- (b) 64
- (c) 67
- (d) 134

Q12. Find the compound interest on Rs 15625 if sum is compounded 8 monthly at 12% Rate of interest per annum for 2 years.

- (a) 3600
- (b) 3650
- (c) 3949
- (d) 4058

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Q13. The successive discount of  $16\frac{2}{3}\%$ ,  $66\frac{2}{3}\%$  and  $10\%$  is equivalent to a single discount of-

- (a) 93.33%
- (b) 87.66%
- (c) 75%
- (d) 72.33%

Q14. Pipes A and B can fill a tank in 9 hours and 12 hours and pipe C can empty the full tank in 18 hours. All three pipes are opened together, but pipe A is closed after 2 hours. In how many hours will the remaining part of the tank be filled?

- (a)  $5\frac{1}{5}$  hours
- (b) 26 hours
- (c)  $6\frac{1}{4}$  hours
- (d) 24 hours

Q15. From the top of a 30 m high building, the angle of elevation of the top of a tower is  $30^\circ$  and the angle of depression of the foot of the tower is  $\theta$ , such that  $\sec\theta = 5/4$ . What is the height of the tower ( $\sqrt{3} = 1.73$ )?

- (a) 53.23
- (b) 52.99
- (c) 51.85
- (d) 48.99

Q16. One side of a rhombus is 61 cm and one of its diagonals is 22 cm. What is the area of the rhombus?

- (a)  $1132\text{ cm}^2$
- (b)  $1320\text{ cm}^2$
- (c)  $1480\text{ cm}^2$
- (d)  $660\text{ cm}^2$

Q17. If  $2\cos^2\theta + 3\sin\theta = 3$ , if  $0 < \theta < 90$  Find  $\sec\theta + \tan\theta$ ?

- (a)  $\sqrt{3} + \frac{1}{\sqrt{3}}$
- (b)  $\sqrt{3} - \frac{1}{\sqrt{3}}$
- (c)  $\sqrt{3}$
- (d)  $\frac{1}{\sqrt{3}}$

Q18.  $5\frac{5}{6} + \left[2\frac{2}{3} - \left\{3\frac{3}{4} \left(3\frac{4}{5} \div 9\frac{1}{2}\right)\right\}\right]$  is equal to-

- (a) 7
- (b)  $\frac{44}{7}$
- (c)  $\frac{43}{6}$
- (d)  $\frac{22}{3}$

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Q19. If  $\cot(2\alpha + \beta) \cot(3\alpha - \beta) = 1$  then what is the value of  $\alpha$

- (a)  $36^\circ$
- (b)  $18^\circ$
- (c)  $45^\circ$
- (d) can't be determine

Q20. What is the mean proportional of 135 and 540?

- (a) 360
- (b) 180
- (c) 270
- (d) 145

Q21. PA and PB are two tangents from a point P outside a circle with centre O. If A and B are points on the circle such that  $\angle APB = 70^\circ$ , then  $\angle OAB$  is equal to —

- (a)  $25^\circ$
- (b)  $35^\circ$
- (c)  $70^\circ$
- (d)  $110^\circ$

Q22. A number which, when increased by 123% becomes 3345. The number is—

- (a) 1245
- (b) 1575
- (c) 1500
- (d) 1775

Q23. The average of all prime numbers between 30 to 60 is—

- (a) 45.53
- (b) 41.42
- (c) 44.43
- (d) 44.90

Q24. A seller marks the products 32% above the cost price and allow a discount of 13%. If the cost price is Rs. 3267800, then the selling price is—

- (a) 385431.23
- (b) 3752741.52
- (c) 3852741.74
- (d) 335431.23

Q25. Which of the following statement is true?

- (a)  $LCM \times HCF = \text{sum of the numbers}$
- (b)  $LCM \text{ of co-prime number} = \text{product of numbers}$
- (c)  $HCF \text{ of two numbers is the smallest common divisor of both numbers}$
- (d) Two prime numbers are co-prime numbers if their LCM is 1.



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