

Quant Mega Quiz for SSC Tier-1

Q1. A circle is inscribed in a triangle ABC. It touches the sides AB, BC and AC at the points R, P and Q respectively. If $AQ = 4.5$ cm, $PC = 5.5$ cm and $BR = 6$ cm, then the perimeter of the triangle ABC is

- (a) 30.5 cm
- (b) 28 cm
- (c) 32 cm
- (d) 26.5 cm

Q2. The table shows the production of different types of cars (in thousands)

Years \ Cars	2012	2013	2014	2015	2016
A	30	35	48	45	56
B	42	48	40	38	56
C	48	36	38	35	44
D	51	24	30	46	54
E	20	42	40	35	43

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if the data related to the production of cars of type E is represented by a pie chart, then the central angle of the sector representing the data of production of cars in 2013 will be

- (a) 102°
- (b) 84°
- (c) 70°
- (d) 80°

Q3. A truck covers a distance of 384 km at a certain speed. if the speed is decreased by 16 km/h, it will take 2 hrs more to cover the same distance. 75% of its original speed (in km/h) is

- (a) 45
- (b) 54
- (c) 48
- (d) 42

Q4. The ratio of the ages of A and B, four years ago, was 4 : 5. Eight years from now, the ratio of the ages of A and B will be 11 : 13. What is the sum of their present ages ?

- (a) 80 yrs
- (b) 96 yrs
- (c) 72 yrs
- (d) 76 yrs

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Q5. In ΔABC , F and E are the points on sides AB and AC, respectively, such that $FE \parallel BC$ and FE divides the triangle in two parts of equal area. If $AD \perp BC$ and AD intersects FE at G, then $GD:AG = ?$

- (a) $\sqrt{2}:1$
- (b) $(\sqrt{2}-1) : 1$
- (c) $2\sqrt{2} : 1$
- (d) $(\sqrt{2}+1) :1$

Q6. If $4 - 2 \sin^2\theta - 5 \cos\theta = 0$, $0^\circ < \theta < 90^\circ$, then the value of $\sin\theta + \tan\theta$ is

- (a) $\frac{3\sqrt{2}}{2}$
- (b) $\frac{3\sqrt{3}}{2}$
- (c) $3\sqrt{2}$
- (d) $2\sqrt{3}$

Q7. The table shows the production of different types of cars (in thousands)

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What is the ratio of the total production of cars of type A in 2014 and type C in 2013 taken together to the total production of cars of type B in 2016 and type E in 2015 taken together?

- (a) 12 : 13
- (b) 11 : 12
- (c) 10 : 11
- (d) 12 : 11

Q8. if decreasing 120 by $x\%$ gives the same result as increasing 40 by $x\%$, then $x\%$ of 210 is what percent less than $(x + 20)\%$ of 180 ?

- (a) $33\frac{1}{3}$
- (b) 18
- (c) $16\frac{2}{3}$
- (d) 20

Q9.

If $(5\sqrt{5}x^3 - 81\sqrt{3}y^3) \div (\sqrt{5}x - 3\sqrt{3}y) = (Ax^2 + By^2 + Cxy)$, then the value of $(6A + B - \sqrt{15}C)$ is

- (a) 10
- (b) 9
- (c) 15
- (d) 12

Q10. If a nine-digit number $985x3678y$ is divisible by 72, then the value of $(4x - 3y)$ is

- (a) 5
- (b) 4
- (c) 6
- (d) 3

Q11. The volume of a solid cylinder with height 784 cm is 246400 cm^3 . The radius of cylinder is—

- (a) 12
- (b) 28
- (c) 10
- (d) 14

Q12. What is the value of $\frac{[(\sin 15^\circ + \sin 75^\circ)(\sin 15^\circ - \sin 75^\circ)]}{[(\cos 15^\circ + \cos 75^\circ)(\cos 15^\circ - \cos 75^\circ)]}$

- (a) 0
- (b) 1
- (c) -1
- (d) 2

Q13. If $x^2 - 4x + 1 = 0$, then find $x^{-1}(x^8 + 1)(x^{-3}) = ?$

- (a) 198
- (b) 194
- (c) 14
- (d) 196



Q14. If A had worked alone he would have taken 63 hours to do the task. What is B's share, if A and B together on a task finishing it in 36 hours and they get paid Rs. 5,950 for it?

- (a) 3600
- (b) 3400
- (c) 2750
- (d) 2550

Q15. The volume of conical tent is 4620 m^3 and its base area is 1386 m^2 . The height of the tent is—

- (a) 11 m
- (b) 10 m
- (c) 12 m
- (d) 14 m

Q16. If it takes 42 days for a pond to get filled with rain water. If the level of water doubles each day. Then how long would it take to fill $1/16$ of pond.

- (a) 38 days
- (b) 39 days
- (c) 32 days
- (d) 8 days

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Q17. In what ratio should coffee costing Rs. 2800/kg be mixed with coffee costing Rs. 1750/kg so that the cost of the mixture is Rs. 2150/kg.

- (a) 8 : 13
- (b) 13 : 8
- (c) 7 : 5
- (d) 5 : 7

Q18. Ram and Pankaj started a partnership business investing in the ratio of 7 : 42. Atul joined them after 5 months with an amount equal to $\frac{2}{21}$ th of Pankaj. What was their profit (in Rs.) at the end of the year if Atul got Rs. 5060 as his share?

- (a) 1, 10, 420
- (b) 1, 11, 320
- (c) 98,720
- (d) 1,05,472

Q19. The average of 27 numbers is zero, out of them how many may be greater than zero, at the most?

- (a) 15
- (b) 20
- (c) 26
- (d) 0

Q20. A fraction is greater than twice its reciprocal by $\frac{7}{15}$. What is the fraction?

- (a) $\frac{3}{5}$
- (b) $\frac{5}{3}$
- (c) $\frac{3}{4}$
- (d) $\frac{4}{3}$

Q21. The compound interest on a certain sum of money for 2 years at 5% is Rs. 328, then the sum is

- (a) Rs. 3000
- (b) Rs. 3600
- (c) Rs. 3200
- (d) Rs. 3400

Q22. The height of a cone is 30 cm. A small cone is cut off at the top by a plane parallel to the base. If its volume be $\frac{1}{27}$ th of the volume of the given cone, at what height above the base is the section made ?

- (a) 19 cm
- (b) 20 cm
- (c) 12 cm
- (d) 15 cm



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Q23. ABCD is a trapezium with AD and BC parallel sides. E is a point on BC. The ratio of the area of ABCD to that of AED is

- (a) $\frac{\overline{AD}}{\overline{BC}}$
(b) $\frac{\overline{BE}}{\overline{EC}}$
(c) $\frac{\overline{AD} + \overline{BE}}{\overline{AD} + \overline{CE}}$
(d) $\frac{\overline{AD} + \overline{BC}}{\overline{AD}}$

Q24. If the surface area of a sphere is 346.5 cm^2 , then its radius $\left[\text{taking } \pi = \frac{22}{7} \right]$ is

- (a) 7 cm
(b) 3.25 cm
(c) 5.25 cm
(d) 9 cm

Q25. An interior angle of a regular polygon is 5 times its exterior angle. Then the number of sides of the polygon is

- (a) 14
(b) 16
(c) 12
(d) 18

Q26. The height of the right pyramid whose area of the base is 30 m^2 and volume is 500 m^3 , is

- (a) 50 m
(b) 60 m
(c) 40 m
(d) 20 m

Q27. The base of a prism is a right angled triangle with two sides 5 cm and 12 cm. The height of the prism is 10 cm. The total surface area of the prism is

- (a) 360 sq cm
(b) 300 sq cm
(c) 330 sq cm
(d) 325 sq cm

Q28. In an equilateral triangle of side 24 cm, a circle is inscribed touching its sides. The area of the remaining portion on the triangle is $(\sqrt{3} = 1.732)$

- (a) 98.55 sq cm
(b) 100 sq cm
(c) 101 sq cm
(d) 95 sq cm

Q29. The base of a right prism is an equilateral triangle. If the lateral surface area and volume is $120 \text{ cm}^2, 40\sqrt{3} \text{ cm}^3$ respectively then the side of base of the prism is

- (a) 4 cm
- (b) 5 cm
- (c) 7 cm
- (d) 40 cm

Q30. Perimeter of a rhombus is $2p$ unit and sum of length of diagonals is m unit, then area of the rhombus is

- (a) $\frac{1}{4} m^2 p$ sq unit
- (b) $\frac{1}{4} mp^2$ sq unit
- (c) $\frac{1}{4}(m^2 - p^2)$ sq unit
- (d) $\frac{1}{4}(p^2 - m^2)$ sq unit

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