

Quant Mega Quiz for SSC Tier-1

Q1. A, B and C invested different amounts in a business for 4 months, 6 months and 12 months respectively. B's investment was 2 times A's investment and C's investment was 2.5 times A's investment. If at the end of the year, they together received an amount of Rs 5,819/- as total profit, what was B's share in the total profit.

- (a) Rs 1,404/-
- (b) Rs 1,428/-
- (c) Rs 1,518/-
- (d) Rs 1,536/-

Q2. The perimeter of a square is twice the perimeter of a rectangle. If the perimeter of the square is 56 cm and the length of the rectangle is 9 cm, then what is the difference between the breadth of the rectangle and the side of the square.

- (a) 7 cm
- (b) 9 cm
- (c) 11 cm
- (d) 5 cm

Q3. The compound interest accrued in 2 years on a principal of Rs 16,250/- is Rs 5,616/- What is the rate of interest p.c.p.a.?

- (a) 22%
- (b) 16%
- (c) 18%
- (d) 15%

Q4. The respective ratio of milk to water in the mixture is 4 : 3 respectively. If 6 litre of water is added to this mixture, the respective ratio of milk to water becomes 8 : 7. What is the quantity of milk in the original mixture?

- (a) 96 litre
- (b) 36 litre
- (c) 84 litre
- (d) 48 litre

Q5. The diameter of a circle is equal to the perimeter of a square whose area is 3136 cm^2 . What is the circumference of the circle?

- (a) 352 cm
- (b) 704 cm
- (c) 39424 cm
- (d) 1024 cm

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Q6. A certain amount was to be distributed among A, B and C in the ratio 2 : 3 : 4 respectively, but was erroneously distributed in the ratio 7 : 2 : 5 respectively. As a result of this, B got Rs 40/- less. What was the amount?

- (a) Rs 210/-
- (b) Rs 270/-
- (c) Rs 230/-
- (d) Rs 280/-

Q7. The fare of a bus is Rs x for the first five kilometers and Rs 13 per kilometre thereafter. If a passenger pays Rs 2,402/- for a journey of 187 kilometres, what is the value of x?

- (a) Rs 29/-
- (b) Rs 39/-
- (c) Rs 36/-
- (d) Rs 31/-

Q8. If the perimeter of a semi-circle is 36 cm, then its area is: (use $\pi = 22/7$)

- (a) 154 sq. cm
- (b) 206 sq. cm
- (c) 77 sq. cm
- (d) None of these

Q9. A juice center requires 35 dozen guavas for 28 days. How many dozen guavas will it require for 36 days?

- (a) 50
- (b) 52
- (c) 40
- (d) 45

Q10. The sum of digits of a two-digit number is 12 and the difference between the two-digits of the two-digit number is 6. What is the two-digit number?

- (a) 39
- (b) 66
- (c) 84
- (d) 75

Q11. In ΔABC , $DE \parallel AC$. Where D and E are two points lying on AB and BC respectively. If $AB = 5$ cm and $AD = 3$ cm, then $BE : EC$ is.

- (a) 2 : 3
- (b) 3 : 2
- (c) 5 : 3
- (d) 3 : 5

Q12. PT is a tangent to a circle with center O and radius 6 cm. If PT is 8 cm then length of OP is

- (a) 10 cm
- (b) 12 cm
- (c) 16 cm
- (d) 9 cm

Q13. Three medians AD, BE and CF of ΔABC intersect at G; area of ΔABC is 36 sq cm. Then the area of ΔCGE is

- (a) 12 sq cm
- (b) 6 sq cm
- (c) 9 sq cm
- (d) 18 sq cm

Q14. AD is the Median of ΔABC . If O is the centroid and $AO = 10$ cm then OD is

- (a) 5 cm
- (b) 20 cm
- (c) 10 cm
- (d) 30 cm

Q15. Incentre of ΔABC is I. $\angle ABC = 90^\circ$ and $\angle ACB = 70^\circ$. $\angle BIC$ is?

- (a) 115°
- (b) 100°
- (c) 110°
- (d) 105°

Q16. The length of the two adjacent sides of a rectangle inscribed in a circle are 5 cm and 12 cm respectively. Then the radius of the circle will be?

- (a) 6 cm
- (b) 6.5 cm
- (c) 8 cm
- (d) 8.5 cm

Q17. In an isosceles ΔABC , AD is the median to the unequal side meeting BC at D. DP is the angle bisector of $\angle ADB$ and PQ is drawn parallel to BC meeting AC at Q. Then the measure of $\angle PDQ$ is?

- (a) 130°
- (b) 90°
- (c) 180°
- (d) 45°

Q18. The students in three classes are in the ratio 2 : 3 : 5. If 40 students are increased in each class, the ratio changes to 4 : 5 : 7 originally the total number of students was

- (a) 100
- (b) 180
- (c) 200
- (d) 400



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Q19. A number is increased by 20% and then it is decreased by 10%. Find the net increase or decrease percent.

- (a) 10% increase
- (b) 10% decrease
- (c) 8% increase
- (d) 8% decrease

Q20. A chord of length 16 cm is drawn in a circle of radius 10 cm. The distance of the chord from the centre of the circle is

- (a) 8 cm
- (b) 6 cm
- (c) 4 cm
- (d) 12 cm

Q21.

If $\sec^2 \theta + \tan^2 \theta = \sqrt{3}$,
then the value of $\sec^4 \theta - \tan^4 \theta$ is

- (a) $1/\sqrt{3}$
- (b) 1
- (c) $\sqrt{3}$
- (d) 0

Q22. If in a triangle ABC, $\sin A = \cos B$ then the value of $\cos C$ is

- (a) $\sqrt{3}/2$
- (b) 0
- (c) 1
- (d) $1/\sqrt{2}$

Q23. If $\sin \theta \times \cos \theta = 1/2$. The value of $\sin \theta - \cos \theta$ is where $0^\circ < \theta < 90^\circ$

- (a) 0
- (b) $\sqrt{2}$
- (c) 2
- (d) 1

Q24. The value of $\cos^2 20^\circ + \cos^2 70^\circ$

- (a) $\sqrt{2}$
- (b) 1
- (c) $1/3$
- (d) 2

Q25.

The value of $\frac{\sin \theta}{1 + \cos \theta} + \frac{\sin \theta}{1 - \cos \theta}$ is

- (a) $2 \sin \theta$
- (b) $2 \cos \theta$
- (c) $2 \sec \theta$
- (d) $2 \operatorname{cosec} \theta$

Q26.

If $\tan \theta = \frac{8}{15}$,

the value of $\frac{\sqrt{1 - \sin \theta}}{\sqrt{1 + \sin \theta}}$ is

- (a) $1/5$
- (b) $2/5$
- (c) $3/5$
- (d) 0

Q27.

If $\frac{\cos \theta}{1 - \sin \theta} + \frac{\cos \theta}{1 + \sin \theta} = 4$,

then the value of θ ($0 < \theta < 90^\circ$) is

- (a) 60°
- (b) 45°
- (c) 30°
- (d) 35°

Q28. If $\sec 15 \theta = \operatorname{cosec} 15 \theta$ ($0^\circ < \theta < 10^\circ$) then the value of θ is

- (a) 9°
- (b) 5°
- (c) 8°
- (d) 3°

Q29. If $\tan \theta = \tan 30^\circ \cdot \tan 60^\circ$ and θ is an acute angle, then 2θ is equal to

- (a) 30°
- (b) 45°
- (c) 90°
- (d) 0°

Q30. If $x^2 = \sin^2 30^\circ + 4 \cot^2 45^\circ - \sec^2 60^\circ$, then the value of x ($x > 0$) is

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

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