

Quant Mega Quiz for SSC Tier-1

Q1. 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

Q2. 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

Q3. 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

Q4. 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

Q5. 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°

Q6. 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

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Q7. 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°

Q8. 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

Q9. 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

Q10. 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

Q11. The number of employees working in a farm is increased by 25% and the wages per head are decreased by 25%. If it result in $x\%$ decrease in total wages, then the value of x is:

- (a) 0%
- (b) 25%
- (c) 20%
- (d) $\frac{25}{4}\%$

Q12. The price of an article was increased by $r\%$. Later the new price was decreased by $r\%$. If the latest price was Rs. 1, then the original price was:

- (a) Rs. 1
- (b) Rs. $\frac{1 - r^2}{100}$
- (c) Rs. $\frac{\sqrt{1 - r^2}}{100}$
- (d) Rs. $\left(\frac{10000}{10000 - r^2}\right)$

Q13. The price of petrol is increased by 25%. By how much percent a car owner should reduce his consumption petrol so that the expenditure on petrol would not be increased?

- (a) 25%
- (b) 30%
- (c) 50%
- (d) 20%

Q14. A number is first decreased by 10% and then increased by 10%. The number so obtained is 50 less than the original number. The original number is:

- (a) 5900
- (b) 5000
- (c) 5500
- (d) 5050

Q15. The Government reduced the price of sugar by 10 percent. By this a consumer can buy 6.2 kg more sugar for Rs. 837. The reduced price per kg of sugar is:

- (a) Rs. 12.50
- (b) Rs. 13.00
- (c) Rs. 13.50
- (d) Rs. 14.00

Q16. The price of sugar is increased by 20%. If the expenditure on sugar has to be kept the same as earlier, the ratio between the reduction in consumption and the original consumption is:

- (a) 1 : 3
- (b) 1 : 4
- (c) 1 : 6
- (d) 1 : 5

Q17. If the price of a commodity is decreased by 20% and its consumption is increased by 20%, what will be the increase or decrease in the expenditure on the commodity?

- (a) 4% increase
- (b) 4% decrease
- (c) 8% decrease
- (d) 8% increase

Q18. A number is first increased by 10% and then it is further increased by 20%. The original number is increased altogether by:

- (a) 30%
- (b) 15%
- (c) 32%
- (d) 36%

Q19. The length of a rectangle is increased by 10% and breadth decreased by 10%. Then the area of the new rectangle is:

- (a) neither decreased nor increased
- (b) increased by 1%
- (c) decreased by 1%
- (d) decreased 10%



The advertisement features a woman, Neetu Singh, in a pink and white patterned top, sitting against a dark red background. In the top left corner, there is a 'LIVE' icon. In the top right corner, the word 'BILINGUAL' is written in white. Below the woman's image, the text 'ENGLISH BY NEETU SINGH' is written in large, white, bold letters. Underneath that, '12th May' is written in a slightly smaller white font. At the bottom, there are two orange boxes: the first contains 'Tue, Thr, Sat' and the second contains '5 pm - 7 pm'.

Q20. B got 20% marks less than A. What percent marks did A got more than B?

- (a) 20%
- (b) 25%
- (c) 12%
- (d) 80%

Q21. An item costing Rs. 840 was sold by a shopkeeper at a gain of 10% and it was again sold by the new buyer at a loss of 5%. Find selling price of the item is:

- (a) Rs. 877.80
- (b) Rs. 798
- (c) Rs. 924
- (d) Rs. 37.80

Q22. By selling an article at $\frac{2}{3}$ of the marked price, there is a loss of 10%. The profit percent, when the article is sold at the marked price is

- (a) 20%
- (b) 30%
- (c) 35%
- (d) 40%

Q23. A merchant fixes the sale price of his goods at 15% above the cost price. He sells his goods at 12% less than the fixed price. His percentage of profit is:

- (a) $2\frac{1}{2}$
- (b) $1\frac{1}{5}$
- (c) $1\frac{1}{2}$
- (d) 2

Q24. A car driver travels from the plains to a hill station, which are 200 km apart at an average speed of 40 km/h. In the return trip he covers the same distance at an average speed of 20 km/h. The average speed of the car over the entire distance of 400 km is

- (a) 16.56 km/h
- (b) 17.89 km/h
- (c) 26.67 km/h
- (d) 35 km/h

Q25. I purchased 120 exercise books at the rate of Rs. 3 each and sold $\frac{1}{3}$ of them at the rate of Rs. 4 each, $\frac{1}{2}$ of them at the rate of Rs. 5 each and the rest at the cost price. My profit percent was

- (a) 44%
- (b) $44\frac{4}{9}\%$
- (c) $44\frac{2}{3}\%$
- (d) 45%

Q26. Two trains of equal lengths are running on parallel tracks in the same direction at 46 km/h and 36 km/h, respectively. The faster train passes the slower train in 36 sec. The length of each train is

- (a) 50 m
- (b) 80 m
- (c) 72 m
- (d) 82 m

Q27. A train covers 180 km distance in 4 hours. Another train covers the same distance in 1 hour less. What is the difference in the distances covered by these trains in one hour ?

- (a) 45 km
- (b) 9 km
- (c) 40 km
- (d) None of these

Q28. Two trains are 2 km apart and their lengths are 200 m and 300 m. They are approaching towards each other with a speed of 20 m/s and 30 m/s, respectively. After how much time will they cross each other ?

- (a) 50 s
- (b) 100 s
- (c) $25\frac{1}{3}$ s
- (d) 150 s

Q29. Raghavan purchased a scooter at $\frac{13}{15}$ of its selling price and sold it at 12% more than its selling price. His gain is.

- (a) 20%
- (b) 30%
- (c) $38\frac{1}{13}\%$
- (d) $29\frac{3}{13}\%$

Q30. By what percent must the cost price be raised in fixing the sale price in order that there may be a profit of 20% after allowing a commission of 10%?

- (a) 25
- (b) $133\frac{1}{3}$
- (c) $33\frac{1}{3}$
- (d) 30

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