

Quant Mega Quiz for SSC Tier-1

Q1. A train travelling at a speed of 30 m/s crosses a 600 m long platform in 30 s. Find the length of the train.

- (a) 120 m
- (b) 150 m
- (c) 200 m
- (d) 300 m

Q2. The relative speed of a train in respect of a car is 90 km/h when train and car are moving opposite to each other. Find the actual speed of train, if car is moving with a speed of 15 km/h.

- (a) 80 km/h
- (b) 105 km/h
- (c) 75 km/h
- (d) 100 km/h

Q3. A and B invest in the ratio 3 : 5. After 6 months, C joins the business investing an amount equal to B's. At the end of the year what will be the ratio of their profits?

- (a) 3 : 5 : 2
- (b) 3 : 5 : 5
- (c) 6 : 10 : 5
- (d) 8 : 10 : 5

Q4. A man deposited Rs. 400 for 2 years, Rs. 550 for 4 years and Rs. 1200 for 6 years. He received Rs. 1020 at what rate of interest?

- (a) 8%
- (b) 10%
- (c) 15%
- (d) 20%

Q5. A sum of money amounts to Rs. 5200 in 5 years and to Rs. 5680 in 7 years at simple interest. The rate of interest per annum is:

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

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Q6. Arun lends Rs. 20,000 to two of his friends. He gives Rs. 12,000 to the first at 8% p.a. simple interest. Arun wants to make a profit of 10% on the whole. The simple interest rate at which he should lend the remaining sum of money to the second friend is

- (a) 8%
- (b) 16%
- (c) 12%
- (d) 13%

Q7. Simple interest on a certain sum at a certain annual rate of interest is $\frac{25}{16}$ of the sum. If the rate percent per annum and time in years be equal, then rate percent per annum is:

- (a) 8%
- (b) $11\frac{1}{2}\%$
- (c) $12\frac{1}{2}\%$
- (d) $12\frac{1}{4}\%$

Q8. A certain sum of money becomes three times of itself in 20 years at simple interest. In how many years does it become double of itself at the same rate?

- (a) 8 years
- (b) 10 years
- (c) 12 years
- (d) 14 years

Q9. A 130 m long train crosses a bridge in 30 seconds at 45 kmph. The length of the bridge is:

- (a) 200 m
- (b) 225 m
- (c) 245 m
- (d) 250 m

Q10. A plane left 30 minutes later than the scheduled time and in order to reach the destination 1500 km away in time, it had to increase the speed by 250 km/hr from the usual speed. Its usual speed is:

- (a) 720 km/hr
- (b) 730 km/hr
- (c) 740 km/hr
- (d) 750 km/hr

Q11. If $x\%$ of $\frac{25}{2}$ is 150, then the value of x is:

- (a) 1000
- (b) 1200
- (c) 1400
- (d) 1500

Q12. A person sells 400 mangoes at the cost price of 320 mangoes. His percentage of loss is

- (a) 10
- (b) 15
- (c) 20
- (d) 25

Q13. On selling an article for Rs. 105 a trader loses 9%. To gain 30% he should sell the article at

- (a) Rs. 126
- (b) Rs. 144
- (c) Rs. 150
- (d) Rs. 139

Q14. Successive discount of 10%, 20% and 25% on the price of an article will reduce the price by:

- (a) 46%
- (b) 54%
- (c) 45%
- (d) 55%

Q15. A man buys a cycle for Rs. 1400 and sells it at a loss of 15%. What is the selling price of the cycle?

- (a) Rs. 1202
- (b) Rs. 1190
- (c) Rs. 1160
- (d) Rs. 1000

Q16. If $r \sin \theta = 1$, $r \cos \theta = \sqrt{3}$, then the value of $(\sqrt{3} \tan \theta + 1)$ is

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

Q17. If $\tan 2\theta \cdot \tan 3\theta = 1$, where $0^\circ < \theta < 90^\circ$, then the value of θ is

- (a) $22\frac{1}{2}^\circ$
- (b) 18°
- (c) 24°
- (d) 30°

Q18.

$$\text{If } x \cos^2 30^\circ \cdot \sin 60^\circ = \frac{\tan^2 45^\circ \cdot \sec 60^\circ}{\operatorname{cosec} 60^\circ}$$

then the value of x

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



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

Q19. If the circumradius of an equilateral triangle be 10 cm, then the measure of its in-radius is

- (a) 5 cm
- (b) 10 cm
- (c) 20 cm
- (d) 15 cm

Q20. I is the incentre of ΔABC , $\angle ABC = 60^\circ$ and $\angle ACB = 50^\circ$. Then $\angle BIC$ is

- (a) 55°
- (b) 125°
- (c) 70°
- (d) 65°

Q21. Two cylindrical pots carry same amount of water. The ratio of their diameters is 2 : 3, then what is the ratio of their heights?

- (a) 2 : 3
- (b) 9 : 2
- (c) 9 : 3
- (d) 9 : 4

Q22. A certain number of cows were sold by a farmer for Rs. 800 each and thrice that number of sheep was sold at Rs. 200 each. In all the farmer made Rs. 8400. How many cows did he sell?

- (a) 4
- (b) 6
- (c) 7
- (d) 10

Q23. Students of a class collected money for flag day. Each student contributed twice as many paise as there were students. They collected a sum of Rs. 18 among themselves. How many students were there in that class?

- (a) 60
- (b) 30
- (c) 80
- (d) 50

Q24. Three numbers are in ratio 3 : 4 : 5. The sum of the largest and smallest equals the sum of the third and 52. The smallest number is:

- (a) 39
- (b) 20
- (c) 27
- (d) 52

Q25. Three cubes of sides 3 cm., 4 cm. and 5 cm. respectively are melted to form a new cube. The side of the new cube is:

- (a) 5 cm
- (b) 6 cm
- (c) 6.5 cm
- (d) 7 cm

Q26. The length of the largest pole that can be placed in a room of dimension 8 m, 6 m and 5 m is:

- (a) 5 m
- (b) $5\sqrt{5}$ m
- (c) 125 m
- (d) 6 m

Q27. A circular lawn of diameter 30 m contains a small rectangular lake $15\text{ m} \times 10\text{ m}$. The remaining portion contains grass. The area of the grass is nearly:

- (a) 357 m^2
- (b) 457 m^2
- (c) 557 m^2
- (d) 157 m^2

Q28. What is 30% of 40% of 260?

- (a) 26.2
- (b) 31.2
- (c) 28.2
- (d) 43.2

Q29. If $\operatorname{cosec} 240^\circ = x$, then the value of x is

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

Q30. Ram travels at the rate of 3 km/hr and he reaches a definite place 15 minutes late. If he travels at the rate of 4 km/hr. he reaches 15 minutes early. The distance ram has to travel is:

- (a) 7 km
- (b) 6 km
- (c) 1 km
- (d) 12 km

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