

Quant Mega Quiz for SSC Tier-1

Q1. A person has some amount with him. 25% of it is stolen in a bus, 10% is lost through a hole in the pocket, 50% of remainder is spent on food. He then purchases a book worth Rs. 26 from the remainder. He walks back home because all his money is over. What was the initial amount?

- (a) Rs. 160
- (b) Rs. 1,230
- (c) Rs. 90
- (d) Rs. 80

Q2. A businessman's earning increases by 25% in one year but decreases by 4% in the next. After 5 years his total earnings would be Rs. 72,000. What is the present earning?

- (a) Rs. 10,000
- (b) Rs. 80,000
- (c) Rs. 40,000
- (d) Rs. 54,000

Q3. A shopkeeper has certain number of eggs of which 5% are found to be broken. He sells 93% of the remainder and still has 266 eggs left. How many eggs did he originally have?

- (a) 3800
- (b) 4000
- (c) 4200
- (d) None of these

Q4. In a group of 20 singers and 40 dancers, 20% of the singers are less than 25 years old and 40% of the entire group are under 25 years. What percentage of dancers are under 25 years?

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

Q5. A invested 125% as much money as B. C invested 80% as much money as B. The total of all the three is 61,000. How much did C invest?

- (a) 25000
- (b) 16000
- (c) 20000
- (d) 45000

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Q6. In a company, there are 75% skilled workers and remaining ones are unskilled. 80% of skilled workers and 20% of unskilled workers are permanent. If number of temporary workers is 126, then what is the number of total workers?

- (a) 480
- (b) 510
- (c) 360
- (d) 377

Q7. There are four friends. The average score in unit test of the first three is 15 and that of the last three is 16. If the score of the last friend is 19, then first friend's score is what percent of average of the last three?

- (a) $66\frac{2}{3}\%$
- (b) 300%
- (c) 100%
- (d) None of these

Q8. When the price of an audio system was reduced by 20%, the sale increased by 80%. What was the net effect on the sale?

- (a) 44% increase
- (b) 44% decrease
- (c) 66% increase
- (d) 60% increase

Q9. If two numbers are respectively 20% and 50% of a third number, what is the percentage of the first number to the second?

- (a) 10
- (b) 20
- (c) 30
- (d) 40

Q10. If the compound interest on a certain sum for 2 years at 4% p.a. is Rs. 102, the simple interest at the same rate of interest for two years would be:

- (a) Rs. 200
- (b) Rs. 50
- (c) Rs. 150
- (d) Rs. 100

Q11. If Sukhbeer sold 12 pen for a rupee and he had a loss of 20%. How many pens he sold for a rupee if he wants to make a profit of 20%.

- (a) 8
- (b) 9
- (c) Can't be determined
- (d) 10

Q12. Sahnaaz spends $\frac{3}{4}$ of his salary. Now his salary increased by 20% and his expenditure is increased by 10%. Find out the percentage increment in his savings?

- (a) 75%
- (b) 25%
- (c) 50%
- (d) Can't be determined

Q13. X's salary is 20% less of y's. Now find out how much percent y's salary is more than that of x's salary.

- (a) 20%
- (b) 40%
- (c) $16\frac{1}{6}\%$
- (d) 25%

Q14. How much percent the markup price of a product is greater than that of its cost price when a shopkeeper gives a discount of 10% and had a profit of 17%

- (a) 10%
- (b) 20%
- (c) 30%
- (d) Can't be determined

Q15. Price of a commodity is increased by 20%. By what percentage the consumption of the commodity is decreased by the consumer, if the expenditure on this commodity remain constant.

- (a) $16\frac{2}{3}\%$
- (b) 25%
- (c) 15%
- (d) 8%

Q16. The tank-full of petrol in Anil's car lasts for 10 days. If he starts using 25% more everyday. How many days will the tank full of petrol last?

- (a) 5
- (b) 6
- (c) 7
- (d) 8

Q17. In an XII class examination out of 480 students, 85% of the girls and 70% of the boys passed. How many girls appeared in the examination. If total pass percentage was 75%.

- (a) 320
- (b) 160
- (c) 370
- (d) 120



Q18. An Alloy of Zinc and Iron weighs 50gm. It contains 80% zinc. How much zinc should be added to the alloy, so that percentage of zinc is increased to 90?

- (a) 50 gm
- (b) 60 gm
- (c) 30 gm
- (d) 45 gm

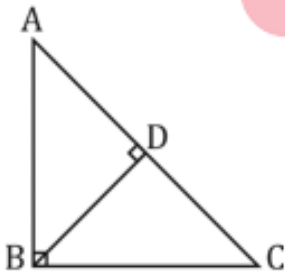
Q19. The profit percentage of a product when it is sold for Rs. 1128 is equal to the loss percentage when the product is sold for Rs. 872. Find the cost price of the product.

- (a) 1000
- (b) 928
- (c) 1100
- (d) Can't be determined

Q20. If the price of a commodity is decreased by 10%, then it is increased by 10%. Find out the final percentage change in the price of a commodity.

- (a) No change
- (b) 1% decreased
- (c) 1% increased
- (d) Can't be determined

Q21. ΔABC is a right angle triangle $BD \perp AC$. If $AD = 12$ cm and $DC = 8$, then $BD = ?$



- (a) $5\sqrt{6}$
- (b) $4\sqrt{6}$
- (c) 8
- (d) Can't determine

Q22. What is the value of a, if $(x + a)$ is a factor of $(x^3 + a^2x - a - 4)$?

- (a) 1
- (b) -3
- (c) 3
- (d) None of these

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Q23. Akshita is at Delhi and Rajat is at gurgaon. Started towards each other, if the ratio of their speed be 8 : 13 respectively then what is the ratio of distance covered by A and B respectively till the point of meeting?

- (a) 8 : 13
- (b) 13 : 8
- (c) 4 : 5
- (d) 13 : 4

Q24. A cylindrical well of depth 21 m with internal radius of 13 m is dug up. The mud, so detained, is spread evenly to form a platform of dimension 52×13.2 . What is the height of the platform?

- (a) 62.5 m
- (b) 18.2 m
- (c) 13.4 m
- (d) 37.5 m

Q25. Four pipes P, Q, R and S can fill a cistern in 25, 20, 50 and 40 hours respectively. The pipe Q was opened at 7 pm, P at 9 pm, S at 10 pm and R at 11 pm. When will the cistern be full?

- (a) 3 : 29 AM
- (b) 2 : 47 AM
- (c) 4 : 09 AM
- (d) 5 : 02 AM

Q26.

$$\frac{4}{5} \times \left[\frac{1}{2} \text{ of } 25 \right] + 12 \div \frac{3}{4} - 32 = ?$$

- (a) -6
- (b) -2
- (c) 8
- (d) 12

Q27. The concentration of three milk solutions A, B and C are 20%, 30% and 40% respectively. They are mixed in the ratio 3 : 4 : N resulting in a 30% concentration solution. Find N.

- (a) 2
- (b) 3
- (c) 4
- (d) 5

Q28. The average of x numbers is 48. If $\frac{5}{6}$ of the numbers are increased by 51 each and remaining are decreased by 71 each, then what is the new average?

- (a) 46
- (b) 49
- (c) 50
- (d) 51



Q29. If the profit on selling an article for Rs. 579 is the same as the loss on selling it for Rs. 337, then find the profit percent if its selling price is Rs. 687.

- (a) 245%
- (b) 25%
- (c) 50%
- (d) $27\frac{1}{2}\%$

Q30. Simple interest on an amount is Rs. 24 and true discount on the same is Rs. 20. The principal amount is

- (a) 110
- (b) 120
- (c) 140
- (d) 100

