

Quant Mega Quiz for SSC Tier - 1

Q1. A machine depreciates in value each year at the rate of 10% of its previous value. However, every second year there is some maintenance work so that in that particular year, depreciation is only 5% of its previous value. If at the end of the fourth year, the value of the machine stands at Rs. 1, 46, 205, then find the value of machine at the start of the first year.

- (a) Rs. 1, 90, 000
- (b) Rs. 2, 00, 000
- (c) Rs. 1, 95, 000
- (d) Rs. 2, 10, 000

Q2. In a test consisting of 80 questions carrying one mark each, Arpita answers 65% of the first 40 questions correctly. What percent of the other 40 questions does she need to answer correctly to score 75% on the entire test?

- (a) 60%
- (b) 80%
- (c) 75%
- (d) 85%

Q3. Atul scored 30% marks in an examination and failed by 40 marks where as his friend Sunil gets 42% marks which is 32 marks more than the minimum required marks for the examination. The maximum marks for the examination.

- (a) 600
- (b) 700
- (c) 800
- (d) 900

Q4. Chunilal invests 65% in machinery, 20% in raw material and still has Rs. 1,305 cash with him. Find his total investment.

- (a) Rs. 6,500
- (b) Rs. 7, 225
- (c) Rs. 8,500
- (d) None of these

Q5. 5% of income of A is equal to 15% of income of B and 10% of income of B is equal to 20% of income of C. If C's income is Rs. 2000, then the total income of A, B and C is :

- (a) Rs. 6000
- (b) Rs. 14,000
- (c) Rs. 18,000
- (d) Rs. 20,000



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Q6. King Dashratha, at his eleventh hour, called his three queens and distributed his gold in the following way: He gave 50% of his wealth to his first wife, 50% of the rest to his second wife and again 50% of the rest to his third wife. If their combined share is worth 1,30,900 kilograms of gold, find the quantity of gold King Dashratha was having initially?

- (a) 1,50,000 kg
- (b) 1,49,600 kg
- (c) 1,51,600 kg
- (d) 1,52,600 kg

Q7. In a market survey, 20% opted for product A whereas 60% opted for product B. The remaining individuals were not certain. If the difference between those who opted for product B and those who were uncertain was 720, how many individuals were covered in the survey ?

- (a) 1440
- (b) 1800
- (c) 3600
- (d) Data inadequate

Q8. In an assembly election at Surat, the total turnout was 80% out of which 16% of the total turnout were declared invalid. Find which of the following can be the percentage votes got by the winner of the election if the candidate who came second got 20% of the total voters on the voting list. (There were only two contestants, only one winner and the total number of voters on the voters' list was 20000.)

- (a) 44.8%
- (b) 47.2%
- (c) 48%
- (d) None of these

Q9. In the university examination last year, Rajesh scored 65% in English and 82% in History. What is the minimum percent he should score in Sociology, which is out of 50 marks (if English and History were for 100 marks each), if he aims at getting 78% overall?

- (a) 94%
- (b) 92%
- (c) 98%
- (d) 96%

Q10. In my office there are 30% female employees and 30% of these earn greater than Rs. 8,000 per months and 80% of male employees earn less than Rs. 8,000 per month. What is the percentage of employees who earn more than Rs. 8,000 per month?

- (a) 30%
- (b) 23%
- (c) 60%
- (d) Can't be determined

Q11. The profit earned by a shopkeeper by selling a bucket at a gain of 8% is Rs. 28 more than when he sells it at a loss of 8%. The cost price (in Rupees) of the bucket is

- (a) 170
- (b) 190
- (c) 175
- (d) 165

Q12. A Man bought 500 meters of electric wire at 50 paise per meter he sold 50% part at the profit of 5%, at what % profit he sold remaining as to gain 10% on the whole transaction?

- (a) 13%
- (b) 12.5%
- (c) 15%
- (d) 20%

Q13. A bookseller allowed 10% discount on the printed price. He gets 30% commission from the publisher. His profit in percent will be

- (a) 20
- (b) $2\frac{84}{7}$
- (c) 25
- (d) $2\frac{83}{7}$

Q14. A dealer is selling an article at a discount of 5% on the marked price. If the market price is 12% above the cost price and the article was sold for Rs. 532 then the cost price is (in Rs.)

- (a) 500
- (b) 525
- (c) 505
- (d) 520

Q15. A shopkeeper increases the price of an object by 40% and then sells it at 25% discount on the marked price. If the selling price of such an object be Rs. 2100, its cost price for the shopkeeper was?

- (a) 3000
- (b) 1500
- (c) 1750
- (d) 2000

Q16. By what fraction selling price (S.P.) must be multiplied to get the cost price (C.P.) if the loss is 20%?

- (a) $\frac{4}{5}$
- (b) $\frac{8}{5}$
- (c) $\frac{5}{4}$
- (d) $\frac{6}{5}$



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Q17. Ramesh sold a book at a loss of 30%. If he has sold it for Rs. 140 more, he would have made a profit of 40%. The cost price of the book is

- (a) Rs. 280
- (b) Rs. 200
- (c) Rs. 260
- (d) Rs. 300

Q18. A shopkeeper purchased 510 eggs at the rate of Rs. 20 per dozen. 30 eggs were broken on the way. In order to make a gain of 20%, he must sell the remaining eggs at the rate of

- (a) Rs. 22.50 per dozen
- (b) Rs. 25.50 per dozen
- (c) Rs. 26 per dozen
- (d) Rs. 26.50 per dozen

Q19. A sells a watch to B and makes a loss of 12%. B makes a profit of $12\frac{1}{2}\%$ by selling the watch to C. If A sells the watch to B at the cost of which C purchased it, then the percentage of loss or profit of A will be.

- (a) 1% loss
- (b) 1% Profit
- (c) 2% loss
- (d) 2% Profit

Q20. A man buys 3 type-I cakes and 6 types-II cakes for Rs. 900. He sells type-I cakes at a profit of 15% and type-II cakes at a loss of 10%. If his overall profits is Rs. 30, the cost price (in Rs.) of a type-I and of a type-II cakes is

- (a) 100, 100
- (b) 160, 70
- (c) 180, 60
- (d) 120, 90

Q21. A shopkeeper sold 12 cameras at a profit of 20% and 8 cameras at a profit of 10%. If he had sold all the 20 cameras at a profit of 15%, then his profit would have been reduced by Rs. 36. What is the cost price of each camera?

- (a) 100
- (b) 150
- (c) 180
- (d) 220

Q22. The marked price of an article is increased by 25% and the selling price is increased by 16.66%, then the amount of profit doubles. If the original marked price be Rs. 400 which is greater than the corresponding cost price by 33.33%, what is the increased selling price?

- (a) 240
- (b) 360
- (c) 420
- (d) 600

Q23. The cost price of an article 'A' is Rs. 160 and selling price of another article 'B' is Rs. 240. If the selling price of A will be equal to the cost price of B, then the profit after selling A is 20%. What is the profit on 'B'?

- (a) 16.66%
- (b) 50%
- (c) 25%
- (d) None of these

Q24. Pepsi and Coke, there are two companies, selling the packs of cold-drinks. For the same selling price Pepsi gives two successive discounts of 10% and 25%. While Coke sells it by giving two successive discounts of 15% and 20%. What is the ratio of their marked price?

- (a) 143 : 144
- (b) 19 : 11
- (c) 136 : 135
- (d) 73 : 77

Q25. A company instead of raising the mark-up by 20% discounted the cost price by 20% while stitching the price tag on its product. Further the company offers a discount of 6.25% to its customer. In this process company incurs a loss of Rs. 37.5 on a single article. What is the selling price of that article?

- (a) 417.5
- (b) 112.5
- (c) 365.5
- (d) None of these

Q26. A trader sold an article at a loss of 5% but when he increased the selling price by Rs. 65 he gained 3.33% on the cost price. If he sells the same article at Rs. 936, what is the profit percentage?

- (a) 15%
- (b) 16.66%
- (c) 20%
- (d) data insufficient

Q27. A person sold an electronic watch at Rs. 96 in such a way that his percentage profit is same as the cost price of the watch. If he sells it at twice the percentage profit of its previous percentage profit then the new selling price will be:

- (a) Rs. 132
- (b) Rs. 150
- (c) Rs. 192
- (d) Rs. 180

Q28. A retailer cheats both to his whole-seller and his customer by 10% by his faulty balance i.e., he actually weighs 10% more while purchasing from wholesaler and weighs 10% less while selling to his customer. What is his net profit percentage, when he sells at CP?

- (a) $22\frac{2}{11}\%$
- (b) $22\frac{2}{9}\%$
- (c) 20%
- (d) 21%

Q29. A person wants to reduce the trade tax so he calculates his profit on the sale price instead of on the cost price. In this way by selling a article for Rs. 280 he calculates his profit as $14\frac{2}{7}\%$. What is his actual profit percentage?

- (a) 20%
- (b) 16.66%
- (c) 25%
- (d) Data insufficient

Q30. A trader marks his goods such that he can make 32% profit after giving 12% discount. However a customer availed 20% discount instead of 12%. What is the new profit percentage of trader?

- (a) 20%
- (b) 44%
- (c) 305
- (d) 28.8%

