

Quant Mega Quiz for SSC Tier - 1

Q1. A sum of Rs. 1750 is divided into two parts such that the interests on the first part at 8% simple interest per annum and that on the other part at 6% simple interest per annum are equal. The interest on each part (in rupees) is

- (a) 60
- (b) 65
- (c) 70
- (d) 40

Q2. A sum of Rs. 1550 was lent partly at 5% and partly at 8% simple interest. The total interest received after 3 years is Rs. 300. The ratio of money lent at 5% to that at 8% is?

- (a) 5 : 8
- (b) 8 : 5
- (c) 31 : 6
- (d) 16 : 15

Q3. What sum of money will amount to Rs. 520 in 5 years and to Rs. 568 in 7 years at simple interest?

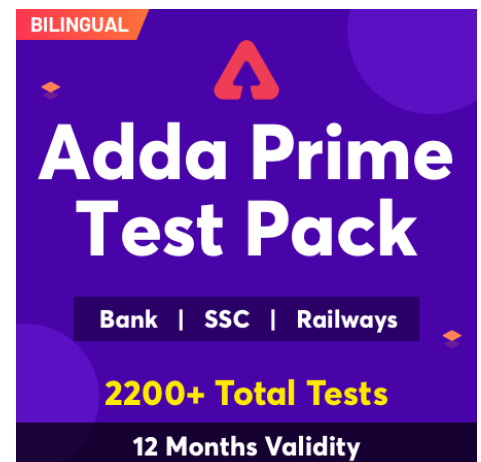
- (a) Rs. 400
- (b) Rs. 120
- (c) Rs. 510
- (d) Rs. 220

Q4. Rs. 500 was invested at 12% per annum simple interest and another certain sum of money invested at 10% per annum simple interest. If the total interest on both the sum after 4 years is Rs. 480, the latter sum of money is:

- (a) Rs. 450
- (b) Rs. 750
- (c) Rs. 600
- (d) Rs. 550

Q5. A money lender finds that due to fall in the annual rate of interest from 8% to $7\frac{3}{4}\%$, his yearly income diminishes by Rs. 61.50. His capital is?

- (a) Rs. 22400
- (b) Rs. 23800
- (c) Rs. 24600
- (d) Rs. 26000



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Q6. A certain sum of money amounts to Rs. 756 in 2 years and to Rs. 873 in $3\frac{1}{2}$ years at a certain rate of simple interest. The rate of interest per annum is

- (a) 10%
- (b) 11%
- (c) 12%
- (d) 13%

Q7. What sum will amount to Rs. 7000 in 5 years at $3\frac{1}{3}\%$ simple interest?

- (a) Rs. 6300
- (b) Rs. 6500
- (c) Rs. 6000
- (d) Rs. 5000

Q8. The simple interest on a certain sum for 8 months at 4% per annum is Rs. 129 less than the simple interest on the same sum for 15 months at 5% per annum. The sum is:

- (a) Rs. 2,580
- (b) Rs. 2400
- (c) Rs. 2529
- (d) Rs. 3600

Q9. A man took a loan from a bank at the rate of 12% per annum at simple interest. After 3 year he had to pay Rs. 5400 as interest only for that period. The principal amount borrowed by him was:

- (a) Rs. 2000
- (b) Rs. 10,000
- (c) Rs. 20,000
- (d) Rs. 15,000

Q10. Mohan lent some amount of money at 9% simple interest and an equal amount of money at 10% simple interest each for two years. If his total interest was Rs. 760, what amount was lent in each case?

- (a) Rs. 1700
- (b) Rs. 1800
- (c) Rs. 1900
- (d) Rs. 2000

Q11. If $a^2 + b^2 + \frac{1}{a^2} + \frac{1}{b^2} = 4$, then the value of $a^2 + b^2$ will be

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

Q12. If $\left(x + \frac{1}{x}\right)^2 = 3$, then $\left(x^3 + \frac{1}{x^3}\right)$ is equal to

- (a) 3
- (b) 2
- (c) 1
- (d) 0

Q13. If $x^3 + 3x^2 + 3x = 7$, then x is equal to

- (a) 2
- (b) $\sqrt[3]{6}$
- (c) 1
- (d) -1

Q14. If $2x + \frac{2}{x} = 1$, then the value of $x^3 + \frac{1}{x^3}$ is

- (a) $\frac{13}{8}$
- (b) $-\frac{11}{8}$
- (c) $\frac{11}{8}$
- (d) $-\frac{13}{8}$

Q15. If $2x + \frac{1}{3x} = 6$, then $3x + \frac{1}{2x}$ is equal to

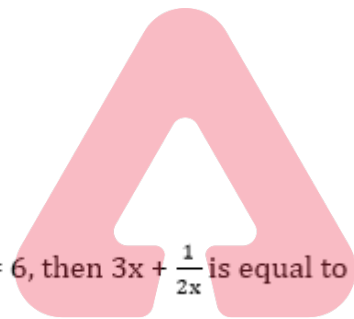
- (a) 4
- (b) 8
- (c) 9
- (d) 12

Q16. If $x = (\sqrt{2} - 1)^{-\frac{1}{2}}$ then the value of $\left(x^2 - \frac{1}{x^2}\right)$ is

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

Q17. If $x^2 + y^2 - 2x + 6y + 10 = 0$, then the value of $(x^2 + y^2)$ is

- (a) 4
- (b) 6
- (c) 8
- (d) 10



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Q18. If $x^{1/3} + y^{1/3} = z^{1/3}$, then $(x + y - z)^3 + 27xyz$ is equal to

- (a) 0
- (b) 1
- (c) -1
- (d) 27

Q19. If $a^2 = 2$, then $(a + 1)$ is equal to

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

Q20.

If $\left(x + \frac{1}{x}\right)^2 = 3$, then the value of $x^{206} + x^{200} + x^{90} + x^{84} + x^{18} + x^{12} + x^6 + 1$ is

- (a) 0
- (b) 1
- (c) 84
- (d) 206



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%

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