

Quant Mega Quiz for SSC Tier-1

Q1. Annual incomes of Amit and Veer are in the ratio 3 : 2, while the ratio of their expenditure is 5 : 3. If at the end of the year each saves Rs. 1,000. The annual income of Amit is

- (a) 9,000 Rs.
- (b) 8,000 Rs.
- (c) 7,000 Rs.
- (d) 6,000 Rs.

Q2. The ratio of the income of A and B as well as of B and C is 3 : 2. If one third of A's income exceeds one fourth of C's income by Rs. 1000, what is B's income in Rs. ?

- (a) 3000
- (b) 2500
- (c) 3500
- (d) 4000

Q3. The price of a refrigerator and a television set are in the ratio 5 : 3. If the refrigerator costs Rs. 5500 more than the television set, then the price of the refrigerator is:

- (a) Rs. 27500
- (b) Rs. 8250
- (c) Rs. 13750
- (d) Rs. 16500

Q4. The ratio of successful and unsuccessful examinees in an examination in a school is 6 : 1. The ratio would have been 9 : 1 if 6 more examinees had been successful. The total number of examinees are

- (a) 140
- (b) 120
- (c) 200
- (d) 160

Q5. A box filled with paper bundles weights 36 kg. If the weight of box and paper bundles respectively are in the ratio of 3 : 22 then the weight of the papers (in grams) is

- (a) 30680 grams
- (b) 30710 grams
- (c) 31500 grams
- (d) 31680 grams

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Q6. The ratio of number of boys the number of girls in a school of 432 pupils is 5 : 4. Then some new boy and girls are admitted, the number of boys increase by 12 and the ratio of the boys to girls changes to 7 : 6. The number of new girls admitted is?

- (a) 12
- (b) 14
- (c) 24
- (d) 20

Q7. If two-third of A is four-fifth of B, then $A : B = ?$

- (a) 5 : 6
- (b) 6 : 5
- (c) 10 : 9
- (d) 9 : 10

Q8. A sum of Rs 15525 is divided among Sunil, Anil and Jamil such that if Rs 22, Rs 35 and Rs 48 be diminished from their shares respectively, their remaining sums shall be in the ratio 7 : 10 : 13. What would have been the ratio of their sums if Rs 16, Rs 77, Rs 37 respectively were added to their original shares?

- (a) 9 : 13 : 17
- (b) 18 : 26 : 25
- (c) 36 : 52 : 35
- (d) None of these

Q9. A person distributes his pens among four friends A, B, C, D in the ratio $\frac{1}{3} : \frac{1}{4} : \frac{1}{5} : \frac{1}{6}$. What is the minimum number of pens that the person should have?.

- (a) 57
- (b) 65
- (c) 75
- (d) 45

Q10. The ratio of boys and girls in a college is 5 : 3. If 50 boys leave the college and 50 girls join the college, the ratio becomes 9 : 7. The number of boys after 50 boys left in the college is

- (a) 300
- (b) 450
- (c) 500
- (d) 600

Q11. 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

Q12. 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

Q13. 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

Q14. 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

Q15. 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

Q16. 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



Q17. 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

Q18. 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%

Q19. 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

Q20. 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%

Q21. A train consists of 12 bogies, each bogie is 15 m long. The train crosses a telegraph post in 18 sec. Due to some problem, two bogies were detached. The train now crosses the telegraph post in:

- (a) 15 s
- (b) 12 s
- (c) 18 s
- (d) 20 s

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Q22. On selling a pen at 5% loss and a book at 15% gain, Karim gains Rs. 7. If he sells the pen at 5% gain and the book at 10% gain, then he gains Rs. 13. The actual price of the book is:

- (a) Rs. 100
- (b) Rs. 80
- (c) Rs. 10
- (d) Rs. 400

Q23. By selling an article at 80% of its marked price, a merchant makes a loss of 12%. What will be the percent profit or loss made by the merchant if he sells the article at 95% of its marked price?

- (a) 5.5% profit
- (b) 1% loss
- (c) 5% profit
- (d) 4.5% profit

Q24. On compound interest a certain amount becomes p times in a year, then in how many years it will become q times

- (a) $\frac{\log q}{\log p}$
- (b) $\frac{a \log q}{\log p}$
- (c) $\frac{a \log p}{\log q}$
- (d) $\frac{\log p}{\log q}$

Q25. A social service camp is planned to be conducted for 30 days. Required food is stored and the intended number of students have been admitted. After 20 days, the number of students is increased by 500 because of unforeseen reasons. The camp could then be run for 5 more days only. What is the number of students originally admitted?

- (a) 1000
- (b) 750
- (c) 500
- (d) 250

Q26. A mechanic purchases a scooter with marked price of Rs. 2600 at successive discounts of 10% and 5%. If he spent Rs. 477 for its repair etc. and sold it for Rs. 2835, then the profit or loss percent in this deal is:

- (a) 5% profit
- (b) 5% loss
- (c) 7% profit
- (d) 7% loss

Q27. If $\tan\theta = \frac{\sin\alpha - \cos\alpha}{\sin\alpha + \cos\alpha}$, then $\sin\alpha + \cos\alpha$ is

- (a) $\pm \sqrt{2} \sin\theta$
- (b) $\pm \sqrt{2} \cos\theta$
- (c) $\pm \frac{1}{\sqrt{2}} \sin\theta$
- (d) $\pm \frac{1}{\sqrt{2}} \cos\theta$

Q28. In an equilateral triangle ABC, P and Q are midpoints of sides AB and AC respectively, such that $PQ \parallel BC$. If $PQ = 5$ cm, then find the length of BC.

- (a) 5 cm
- (b) 10 cm
- (c) 15 cm
- (d) 12 cm

Q29. The base of a right pyramid is an equilateral triangle with side 10cm and vertical height 5cm. Find its surface area (in cm^2)?

- (a) $35\sqrt{2}$
- (b) $44\sqrt{3}$
- (c) $50\sqrt{3}$
- (d) $44\sqrt{2}$

Q30. The total surface area of a solid hemisphere is $108\pi \text{ cm}^2$, then the volume of the hemisphere is

- (a) $72\pi \text{ cm}^3$
- (b) $144\pi \text{ cm}^3$
- (c) $108\pi \text{ cm}^3$
- (d) $54\pi \text{ cm}^3$

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