

Quant Mega Quiz for SSC Tier-2

Q1. The daily work of 2 men is equal to that of 3 women or that of 4 youngsters. By employing 14 men, 12 women, and 12 youngsters a certain work can be finished in 24 days. If it is required to finish it in 14 days and as an additional labour, only men are available, how many of them will be required?

- (a) 18 men
- (b) 20 men
- (c) 48 men
- (d) 28 men

Q2. Vineet calculates his profit percentage on the selling price whereas Roshan calculates his profit on the cost price. They find that the difference of their profits is Rs. 275. If the selling price of both of them are the same, and Vineet gets 25% profit and Roshan gets 15% profit, then find their selling price.

- (a) Rs. 2350
- (b) Rs. 2300
- (c) Rs. 2100
- (d) RS. 2250

Q3. The Maithan dam has four inlets. Through the first three inlets, the dam can be filled in 12 minutes; through the second, the third and the fourth inlet it can be filled in 15 minutes; and through the first and the fourth inlet it can be filled in 20 minutes. How much time will it take for all the four inlets to fill up the dam?

- (a) 8 min
- (b) 10 min
- (c) 12 min
- (d) 18 min

Q4. A man's average expenditure for the first 4 months of the year was Rs 251.25. For the next 5 months the average monthly expenditure was Rs 26.27 more than what it was during the first 4 months. If the person spent Rs 760 in all during the remaining 3 months of the years, find what percentage of his annual income of Rs 3305.2 he saved in the year(approximately) .

- (a) 14%
- (b) 5%
- (c) 12%
- (d) 18%

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Q5. Uday makes 750 articles at a cost of 60 paise per article. He fixes the selling price such that if only 600 article are sold, he will make a profit of 40% on the outlay. However, 120 articles got spoiled and he was able to sell 630 articles at this price. Find his actual profit percent as the percentage of total outlay assuming that the unsold articles are useless.

- (a) 42%
- (b) 53%
- (c) 47%
- (d) 46%

Q6. Amit brought two cars. He then sold the first car at 10% profit and the second one at 25% profit. The selling price of the second car is 25% more than the selling price of the first car. What is the approximate profit per cent in both the cars together?

- (a) 17.85%
- (b) 18.36%
- (c) 16.19%
- (d) 23.13%

Q7. A , B and C invested different amounts in a business for 4 months, 6 months and 12 months respectively. B's investment was 2 times A's investment and C's investment was 2.5 times A's investment. If at the end of the year, they together received an amount of Rs 5,819/- as total profit, what was B's share in the total profit.

- (a) Rs 1,404/-
- (b) Rs 1,428/-
- (c) Rs 1,518/-
- (d) Rs 1,536/-

Q8. Mr. Arun can make 40 questions in 5 hours and Mr. Veer can make 45 questions in 9 hours. If Mr. Arun takes help of Mr. Satish then both can complete 40 questions in 2 hours and if Mr. Veer takes help of Mr. Ayush then both can complete 45 questions in 5 hours. Find in how much time Mr. Satish and Mr. Ayush can complete a set of 24 questions together?

- (a) 3 h
- (b) 2.5 h
- (c) 2 h
- (d) 1.5 h

Q9. Three years ago, the population of a village was 18,000 and ratio of male to female was 3 : 2. If the increasing rate of male was $16\frac{2}{3}\%$ per annum and that of women was 5% per annum then what will be the total population of village before one year from the present population.

- (a) 24538
- (b) 26338
- (c) 22638
- (d) 21425

Q10. A train leaves the station $1/2$ hour before the scheduled time. The driver decreases its speed by 25 km/hr. At the next station 250 km away, the train reached on time. Find the original speed of the train.

- (a) 100 km/hr
- (b) 125 km/hr
- (c) 200 km/hr
- (d) 180 km/hr

Q11. What is the value of $[12/(\sqrt{5} + \sqrt{3})] + [18/(\sqrt{5} - \sqrt{3})]$?

- (a) $15(\sqrt{5} - \sqrt{3})$
- (b) $3(5\sqrt{5} + \sqrt{3})$
- (c) $15(\sqrt{5} + \sqrt{3})$
- (d) $3(3\sqrt{5} + \sqrt{3})$

Q12. S, T and U can complete a work in 40, 48 and 60 days respectively. They received Rs 10800 to complete the work. They begin the work together but T left 2 days before the completion of the work and U left 5 days before the completion of the work. S has completed the remaining work alone. What is the share of S (in Rs) from total money?

- (a) 4000
- (b) 4320
- (c) 4500
- (d) 4860

Q13. A farmer's land is in the shape of a trapezium which has its parallel sides measuring 2.56 yards and 3.44 yards and the distance between the parallel sides is 1.44 yards. The cost of ploughing the land is Rs 1800 per square yard. What amount will (in Rs) have to be spent in order to plough the entire land?

- (a) 3672
- (b) 6732
- (c) 7776
- (d) 8214

Q14. If after giving a discount of 18%, a book is sold for Rs 1599, then what will be the marked price (in Rs) of the book?

- (a) 1800
- (b) 1880
- (c) 1950
- (d) 2000

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Q15. A man has 3 sons, 2 daughters and a wife. They divided a sum of Rs 19000 among themselves such that each daughter got 1.5 times the amount received by each son and his wife received 600 less than each son. What is the total amount (in Rs) received by the 3 sons together?

- (a) 2800
- (b) 3600
- (c) 5600
- (d) 8400

Q16. The average of 3 consecutive even numbers is A. If next 5 even numbers are added, then what is the average of these 8 numbers?

- (a) $A + 3$
- (b) $A + 4$
- (c) $A + 5$
- (d) $A + 7$

Q17. While selling an article for Rs 18450, a person suffered a loss of 50%. At what price he should have sold the article (in Rs) to earn a profit of 50%?

- (a) 13837
- (b) 52000
- (c) 55350
- (d) 56775

Q18. The present population of a town is 26010. It increases annually at the rate of 2%. What was the population of town 2 years ago?

- (a) 25000
- (b) 25100
- (c) 25200
- (d) 25500

Q19. A train of length 100 m crosses another train of length 150 m, running on a parallel track in the opposite direction in 9 seconds. If the speed of train having length 150 m is 40 km/hr, then what is the speed (in km/hr) of the other train?

- (a) 30
- (b) 48
- (c) 50
- (d) 60

Q20. What is the compound interest (in Rs) for 1 year on a sum of Rs 20000 at the rate of 40% per annum compounding half yearly?

- (a) 8000
- (b) 8650
- (c) 8750
- (d) 8800

Q21. In an examination Ram scored 25 mark less than Rohit. Rohit scored 45 more marks than Sam. Rohan scored 75 marks which is 10 more marks than Sam. Ravi's score is 50 less than maximum marks of the test. What approximate percentage of marks did Ravi score in the examination if gets 34 marks more than Ram?

- (a) 60 %
- (b) 80%
- (c) 70 %
- (d) 85%

Q22. A train running with speed of 80 km/hr crosses a person in 18seconds. Then in how much time this train crosses another stationery train whose length is 25% more than the length of previous.

- (a) 45sec
- (b) 31 sec
- (c) 32 sec
- (d) 40.5 sec

Q23. A and B invest in a business in the ratio 3:7. The business marks a profit of Rs 60000 in 1 year. They decide to distribute the profit remaining after reinvesting 40% of the profit. How much will B get (in Rs) ?

- (a) 10800
- (b) 15600
- (c) 25200
- (d) 20400

Q24. In a vessel milk is 60% less than water. When X liter milk is added to mixture then ratio of milk and water becomes 3:5. Now Y liter water is extracted from mixture then this ratio become 7:10. Now 30 liter of milk is added again then new ratio of milk and water becomes 4:5.find the value of $\frac{x+y}{3}$

- (a) 120
- (b) 80
- (c) 60
- (d) 40

Q25. Find the compound interest on a sum of Rs 12347 at the rate of 11% for 3 years .

- (a) Rs 3926.18
- (b) Rs 4539.13
- (c) Rs 5132.25
- (d) Rs 7211.67

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Q26. If $a + \frac{1}{b} = 4$, $b + \frac{1}{c} = 1$, $c + \frac{1}{a} = \frac{7}{3}$, and a, b, c are positive numbers, then $abc = ?$

- (a) $\frac{5}{7}$
- (b) 1
- (c) $\frac{4}{3}$
- (d) $\frac{2}{3}$

Q27. A can do a work in 15 days, while B can do same work in 24 days. They start the work together. Few days later C joins them thus all of them complete the work in 8 days. All of them were paid for this 6000 Rs. What is the share of C.

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

Q28. From a point O, on a level ground the angle of elevation of the top of a tower is 60° if the height is 270 m. The distance of point O from the foot of the tower is?

- (a) 200.2
- (b) 155.88
- (c) 172.28
- (d) 165.45

Q29. An unequal side of an isosceles triangle is 2 cm, and one of the angles between the unequal side and the equal sides is 45° . Then what is the area of the triangle?

- (a) 2 cm
- (b) 3 cm
- (c) 4 cm
- (d) 1 cm

Q30. If a six digit number is formed by repeating a two digit number three times, the number will be divided by?

- (a) 1001
- (b) 101
- (c) 10001
- (d) 10101

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