

Quant Mega Quiz for SSC Tier-1

Q1. Rs. 2420 were divided among A, B, C . so that $A : B = 5 : 4$ and $B : C = 9 : 10$ then C gets

- (a) 680
- (b) 800
- (c) 900
- (d) 950

Q2. 49 kg of blended tea contain Assam and Darjeeling tea in the ratio $5 : 2$. Then the quantity of Darjeeling tea is to be added to the mixture to make the ratio of Assam to Darjeeling tea $2 : 1$ is

- (a) 4.5 kg
- (b) 3.5 kg
- (c) 5 kg
- (d) 6 kg

Q3. Among 132 examinees of a certain school, the ratio of successful to unsuccessful students is $9 : 2$. Had 4 more students passed, then the ratio of successful to unsuccessful students will be

- (a) $14 : 3$
- (b) $14 : 5$
- (c) $28 : 3$
- (d) $28 : 5$

Q4. In a regiment the ratio between the number of officers to soldiers was $3 : 31$ before battle. In a battle 6 officers and 22 soldiers were killed and the ratio became $1 : 13$, the number of officers in the regiment before battle was

- (a) 31
- (b) 38
- (c) 21
- (d) 28

Q5. Three containers have their volumes in the ratio $3 : 4 : 5$. They are full of mixture of milk and water. The mixtures contain milk and water in the ratio of $(4 : 1)$, $(3 : 1)$ and $(5 : 2)$ respectively. The contents of all these three containers are poured into a fourth container. The ratio of milk and water in the fourth

- (a) $4 : 1$
- (b) $151 : 48$
- (c) $157 : 53$
- (d) $5 : 2$

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Q6. In what proportion must a grocer mix sugar Rs. 12 a kg and Rs. 7 a kg so as to make a mixture worth Rs. 8 a kg ?

- (a) 7 : 12
- (b) 1 : 4
- (c) 2 : 3
- (d) 12 : 7

Q7. Fifteen movie theatres having average 600 customers per theatre per day. If six of the theatres close down but the total theatre attendance stays the same, then the average daily attendance per theatre among the remaining theatres is

- (a) 900
- (b) 1000
- (c) 1100
- (d) 1200

Q8. The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is :

- (a) 31 kg
- (b) 32 kg
- (c) 29.5 kg
- (d) 35 kg

Q9. The batting average for 40 innings of a cricket player is 50 runs. His highest score exceeds his lowest score by 172 runs. If these two innings are excluded, the average of the remaining 38 innings is 48 runs. The highest score of the player is

- (a) 165
- (b) 170
- (c) 172
- (d) 174

Q10. The average of 7 consecutive numbers is 20. The largest of these numbers is

- (a) 20
- (b) 23
- (c) 24
- (d) 26

Q11. A train 300 m long is running with a speed of 54 km/hr. In what time will it cross a telephone pole?

- (a) 20 seconds
- (b) 15 seconds
- (c) 17 seconds
- (d) 18 seconds

Q12. A man is walking at a speed of 10 kmph. After every km, he takes a rest for 5 minutes. How much time will he take to cover a distance of 5 km?

- (a) 60 minutes
- (b) 50 minutes
- (c) 40 minutes
- (d) 70 minutes

Q13. A man borrows money at 3% per annum interest payable yearly and lend it immediately at 5% interest (compound) payable half-yearly and thereby gains Rs. 330 at the end of the year. The sum borrowed is

- (a) Rs. 17000
- (b) Rs. 16500
- (c) Rs. 15000
- (d) Rs. 16000

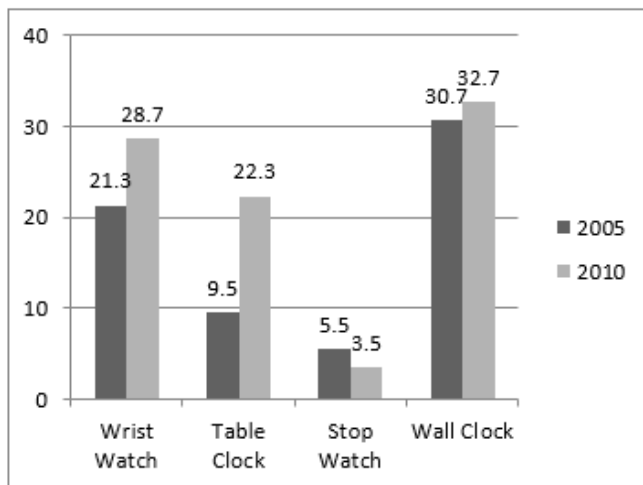
Q14. Two years ago, the value of my motorbike was Rs. 62500. If the value depreciates by 4% every year, now its value is

- (a) Rs. 56700
- (b) Rs. 57600
- (c) Rs. 57500
- (d) Rs. 55700

Q15. If the compound interest on a sum for 2 years at $12\frac{1}{2}$ p.a is Rs. 510, the simple interest on the same sum at the same rate for the same period of time is

- (a) Rs. 400
- (b) Rs. 450
- (c) Rs. 460
- (d) Rs. 480

Directions (16-20): A watch company produces four different products. The sale of these products in lakhs during 2005 and 2010 are shown in the following bar diagram. Study the graph and answer the questions.



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Q16. The sales in percentage of wrist watch in 2010 more than the sales of table clock in 2010 was nearly by

- (a) 26.7%
- (b) 27.7%
- (c) 28.7%
- (d) 21.7%

Q17. The ratio of sales of stop watch in 2010 to the sale of table clock in 2005 is

- (a) 6 : 19
- (b) 7 : 6
- (c) 19 : 6
- (d) 7 : 19

Q18. The sales of table clock in 2005 was less than the sales of wall clock in 2005 is nearly by

- (a) 70.05%
- (b) 69.05%
- (c) 68.05%
- (d) 62.05%

Q19. During the period 2005-2010 the minimum rate of increase in sales is in the product of

- (a) Wrist watch
- (b) Table clock
- (c) Stop watch
- (d) Wall clock

Q20. The sales have increased by nearly 135% from 2005 to 2010 in the product of

- (a) Table clock
- (b) Wrist watch
- (c) Stop watch
- (d) Wall clock

Q21. If $(x^3 - y^3) : (x^2 + xy + y^2) = 5 : 1$ and $(x^2 - y^2) : (x - y) = 7 : 1$, then the ratio $2x : 3y$ equals

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

Q22. If $x = a^{1/2} + a^{-1/2}$, $y = a^{1/2} - a^{-1/2}$, then value of $(x^4 - x^2y^2 - 1) + (y^4 - x^2y^2 + 1)$

- (a) 16
- (b) 14
- (c) 12
- (d) 13

Q23. The marked price of a tape recorder is Rs. 12,600. A festival discount of 5% is allowed on it. Further for cash payment, a second discount of 2% is given. The cash payment, in rupees, that is to be made for buying it is

- (a) 11,730.60
- (b) 11,073.60
- (c) 11,703.60
- (d) 11,370.60

Q24. If a man walks at the rate of 5km/hour, he misses a train by 7 minutes. However, if he walks at the rate of 6km/hour, he reaches the station 5 minutes before the arrival of the train. The distance covered by him to reach the station is

- (a) 6 km
- (b) 7 km
- (c) 4 km
- (d) 6.25 km

Q25. If $x - \sqrt{3} - \sqrt{2} = 0$ and $y - \sqrt{3} + \sqrt{2} = 0$
then value of $(x^3 - 20\sqrt{2}) - (y^3 + 2\sqrt{2})$

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

Q26. The radii of two solid iron spheres are 1 cm and 6 cm respectively. A hollow sphere is made by melting the two spheres. If the external radius of the hollow sphere is 9 cm, then its thickness (in cm) is

- (a) 0.5
- (b) 2
- (c) 1.5
- (d) 1

Q27. There is a wooden sphere of radius $6\sqrt{3}$ cm. The surface area of the largest possible cube cut out from the sphere will be

- (a) $464\sqrt{3}$ cm²
- (b) $646\sqrt{3}$ cm²
- (c) 462 cm²
- (d) 864 cm²

Q28. If 60% of A = 30% of B, B = 40 % of C and C = x% of A, then value of x is

- (a) 200
- (b) 500
- (c) 300
- (d) 800

Q29. A and B can do a piece of work in 30 and 36 days respectively. They began the work together but A leaves after some days and B finished the remaining work in 25 days. After how many days did A leave?

- (a) 6 days
- (b) 5 days
- (c) 11 days
- (d) 10 days

Q30. A sum of money placed at compound interest doubles itself in 5 years. It will amount to eight times itself at the same rate of interest in

- (a) 10 years
- (b) 20 years
- (c) 12 years
- (d) 15 years



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