

Quant Mega Quiz for SSC Tier-1

**Q1. Having the same capacity 9 taps fill up a water tank in 20 minutes. How many taps of the same capacity are required to fill up the same water tank in 15 minutes?**

- (a) 10
- (b) 12
- (c) 15
- (d) 18

**Q2. Raj and Ram working together do a piece of work in 10 days. Raj alone can do it in 12 days. Ram alone will do the work in**

- (a) 20 days
- (b) 40 days
- (c) 50 days
- (d) 60 days

**Q3. A shopkeeper sold an item at 10% loss after giving a discount equal to half the marked price. Then the cost price is**

- (a)  $\frac{1}{9}$ th of marked price
- (b)  $\frac{4}{9}$ th of marked price
- (c)  $\frac{5}{9}$ th of marked price
- (d)  $\frac{7}{9}$ th of marked price

**Q4. A person purchased a saree for Rs. 7710 after availing a net discount of Rs. 1285. The percentage of discount, the saree shop offers, is**

- (a)  $14\frac{1}{7}\%$
- (b)  $14\frac{2}{7}\%$
- (c)  $14\frac{3}{7}\%$
- (d)  $14\frac{4}{7}\%$

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**Q5. A cycle dealer offers a discount of 10% and still makes a profit of 26%. What does he pay for a cycle whose marked price is Rs. 840?**

- (a) Rs. 600
- (b) Rs. 650
- (c) Rs. 700
- (d) Rs. 750

**Q6. If the cost price of an item is two fifth of its marked price and if it is sold at a discount of 10%, then there will be**

- (a) 25% profit
- (b) 40% profit
- (c) 50% profit
- (d) 125% profit

**Q7. Prakash lends a part of Rs. 20,000 at 8% simple interest and remaining at  $\frac{4}{3}\%$  simple interest. His total income after a year was Rs. 800. Find the sum lent a 8%.**

- (a) Rs. 8,000
- (b) Rs. 12,000
- (c) Rs. 6,000
- (d) Rs. 10,000

**Q8. 20 litres of a mixture contains 20% alcohol and the rest water. If 4 litres of water be mixed in it, the percentage of alcohol in the new mixture will be**

- (a)  $33\frac{1}{3}\%$
- (b)  $16\frac{2}{3}\%$
- (c) 25%
- (d)  $12\frac{1}{2}\%$

**Q9. A man divides his property so that his son's share to his wife's and wife's share to his daughter's are both as in the ratio 3 : 1. If the daughter gets Rs. 10,000 less than son, the value (in rupees) of the whole property is**

- (a) Rs. 16,250
- (b) Rs. 16,000
- (c) Rs. 18,250
- (d) Rs. 17,000

**Q10. There are two containers of equal capacity. The ratio of milk to water in the first container is 3 : 1, in the second container 5 : 2. If they are mixed up, the ratio of milk to water in the mixture will be**

- (a) 28 : 41
- (b) 41 : 28
- (c) 15 : 41
- (d) 41 : 15



**Q11.** The compound interest on a certain sum of money for 2 years at 5% is Rs. 328, then the sum is

- (a) Rs. 3000
- (b) Rs. 3600
- (c) Rs. 3200
- (d) Rs. 3400

**Q12.** The height of a cone is 30 cm. A small cone is cut off at the top by a plane parallel to the base. If its volume be  $\frac{1}{27}$ th of the volume of the given cone, at what height above the base is the section made ?

- (a) 19 cm
- (b) 20 cm
- (c) 12 cm
- (d) 15 cm

**Q13.** ABCD is a trapezium with AD and BC parallel sides. E is a point on BC. The ratio of the area of ABCD to that of AED is

- (a)  $\frac{\overline{AD}}{\overline{BC}}$
- (b)  $\frac{\overline{BE}}{\overline{EC}}$
- (c)  $\frac{\overline{AD} + \overline{BE}}{\overline{AD} + \overline{CE}}$
- (d)  $\frac{\overline{AD} + \overline{BC}}{\overline{AD}}$



**Q14.** If the surface area of a sphere is  $346.5 \text{ cm}^2$ , then its radius [taking  $\pi = \frac{22}{7}$ ] is

- (a) 7 cm
- (b) 3.25 cm
- (c) 5.25 cm
- (d) 9 cm

**Q15.** An interior angle of a regular polygon is 5 times its exterior angle. Then the number of sides of the polygon is

- (a) 14
- (b) 16
- (c) 12
- (d) 18

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**Q16.** The height of the right pyramid whose area of the base is  $30 \text{ m}^2$  and volume is  $500 \text{ m}^3$ , is

- (a) 50 m
- (b) 60 m
- (c) 40 m
- (d) 20 m

**Q17.** The base of a prism is a right angled triangle with two sides 5 cm and 12 cm. The height of the prism is 10 cm. The total surface area of the prism is

- (a) 360 sq cm
- (b) 300 sq cm
- (c) 330 sq cm
- (d) 325 sq cm

**Q18.** In an equilateral triangle of side 24 cm, a circle is inscribed touching its sides. The area of the remaining portion on the triangle is ( $\sqrt{3} = 1.732$ )

- (a) 98.55 sq cm
- (b) 100 sq cm
- (c) 101 sq cm
- (d) 95 sq cm

**Q19.** The base of a right prism is an equilateral triangle. If the lateral surface area and volume is  $120 \text{ cm}^2, 40\sqrt{3} \text{ cm}^3$  respectively then the side of base of the prism is

- (a) 4 cm
- (b) 5 cm
- (c) 7 cm
- (d) 40 cm

**Q20.** Perimeter of a rhombus is  $2p$  unit and sum of length of diagonals is  $m$  unit, then area of the rhombus is

- (a)  $\frac{1}{4} m^2 p$  sq unit
- (b)  $\frac{1}{4} mp^2$  sq unit
- (c)  $\frac{1}{4}(m^2 - p^2)$  sq unit
- (d)  $\frac{1}{4}(p^2 - m^2)$  sq unit

**Q21.** 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

**Q22. 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

**Q23. 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

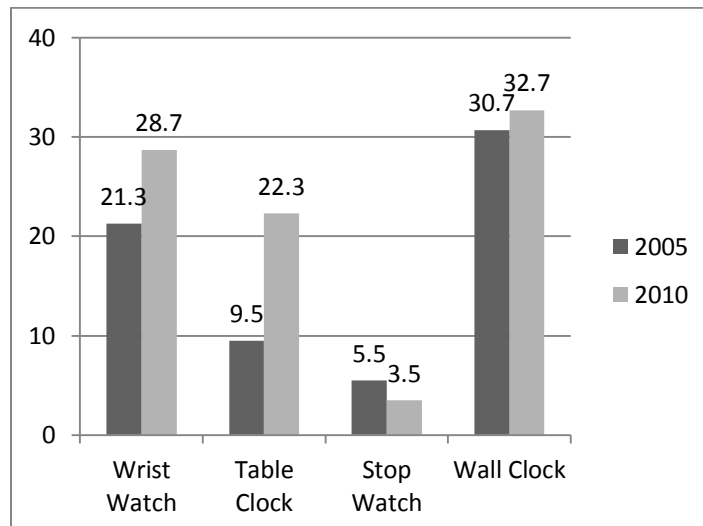
**Q24. Two years ago, the value of my motorbike was Rs. 62500. If the value depreciates by 4% every year, now its value is**

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

**Q25. 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 (26-30) : 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.**



**Q26. 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%

**Q27. 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

**Q28. 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%

**Q29. 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



**Q30. 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

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