

Quant Mega Quiz for SSC CHSL

Q1. Lala has lent some money to Arun at 5% p.a. and Bhatia at 8% p.a. At the end of the year, he has gained an overall interest at the rate 6%. In what ratio has he lent the money to Arun and Bhatia?

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

Q2. The ratio of milk and water in mixtures of four containers are 5 : 3, 2 : 1, 3 : 2 and 7 : 4 respectively. In which container is the quantity of milk, relative to water, minimum?

- (a) First
- (b) Second
- (c) Third
- (d) Fourth

Q3. In a mixture of 25 litres, the ratio of acid to water is 4 : 1. Another 3 litres of water is added to the mixture. The ratio of acid to water in the new mixture is

- (a) 5 : 2
- (b) 2 : 5
- (c) 3 : 5
- (d) 5 : 3

Q4. A person borrows some money for 5 years and ratio of loan amount : total interest amount is 5 : 2 for one year. Then find the ratio of loan amount : interest rate is equal to:

- (a) 2 : 25
- (b) 2 : 1
- (c) 5 : 2
- (d) 25 : 2

Q5. Ramesh deposited Rs. 15600 in a fixed deposit at the rate of 10% per annum simple interest. After every second year, he adds his interest earnings to the principal. The interest at the end of fourth year is

- (a) Rs. 1716
- (b) Rs. 1560
- (c) Rs. 3744
- (d) Rs. 1872

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Q6. A sum of money at a certain rate per annum of simple interest doubles in the 5 years and at a different rate becomes three times in 12 years. The lower rate of interest per annum is

- (a) 15%
- (b) 20%
- (c) $15\frac{3}{4}\%$
- (d) $16\frac{2}{3}\%$

Q7. 15 men take 20 days to complete a job working 8 hours a day. The number of hours a day should 20 men take to complete the job in 12 days

- (a) 5 hours
- (b) 10 hours
- (c) 15 hours
- (d) 18 hours

Q8. 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

Q9. 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

Q10. 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

Q11. A sphere of radius 3 cm is dropped into a cylindrical vessel partly filled with water. The radius of the vessel is 6 cm. If the sphere is submerged completely, then the surface of the water is raised by:

- (a) $\frac{1}{4}$ cm
- (b) $\frac{1}{2}$ cm
- (c) 1 cm
- (d) 2 cm

Q12. A wire of length 22 cm and 0.2 cm in diameter is melted and recast into small balls of diameter 0.1 cm. The number of balls made is:

- (a) 1225
- (b) 1350
- (c) 1320
- (d) 1280

Q13. A hemispherical bowl of thickness 1 cm and external diameter 10 cm is to be painted all over. What is the cost of painting at the rate of Rs. 0.70 per cm^2 ?

- (a) Rs. 200
- (b) Rs. 400
- (c) Rs. 800
- (d) Rs. 100

Q14. A conical vessel of radius 6 cm and height 8 cm is completely filled with water. A sphere is lowered into the water and its size is such that when it touches the sides, it is just immersed. The fraction of water that overflows is:

- (a) 1 : 4
- (b) 1 : 2
- (c) 3 : 8
- (d) 5 : 8

Q15. If the curved surface area of a cone is thrice that of another cone and slant height of the second cone is thrice that of the first, find the ratio of the area of their base.

- (a) 9 : 1
- (b) 81 : 1
- (c) 3 : 1
- (d) 27 : 1

Q16. 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 is $\frac{1}{27}$ of the given cone, then the height of the smaller cone is:

- (a) 13.5 cm
- (b) 11 cm
- (c) 10 cm
- (d) 12 cm

Q17. A water tank in the form of a cuboid has its base 20 m long, 7 m wide and 10 m deep. Initially, the tank is full but later when water is taken out of it, the level of water in the tank reduces by 2 m. The volume of the water left in the tank is:

- (a) $1,120 \text{ m}^3$
- (b) 400 m^3
- (c) 280 m^3
- (d) 140 m^3

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Q18. The length of a room is double the breadth. The cost of colouring the ceiling at Rs. 25 per square metre is Rs. 5,000 and the cost of painting the four walls at Rs. 240 per square metre is Rs. 64,800. Find the height of the room.

- (a) 4.5 m
- (b) 4 m
- (c) 3.5 m
- (d) 5 m

Q19. A conical cavity is drilled in a circular cylinder of 15 cm height and 16 cm base diameter. The height and the base diameter of the cone are same as those of the cylinder. Determine the total surface area of the remaining solid.

- (a) $440 \pi \text{ cm}^2$
- (b) $215 \pi \text{ cm}^2$
- (c) $542 \pi \text{ cm}^2$
- (d) $376 \pi \text{ cm}^2$

Q20. It is required to fix a pipe such that water flowing through it at a speed of 7 m per minute fills a tank of capacity 440 cubic metres in 10 minutes. The inner radius of the pipe should be:

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

Q21. A large cube is formed from the material obtained by melting three smaller cubes of 3, 4 and 5 cm side. What is the ratio of the total surface areas of the smaller cubes and the large cube?

- (a) 2 : 1
- (b) 3 : 2
- (c) 25 : 18
- (d) 27 : 20

Q22. A cylinder 6 cm in diameter is partially filled with water. A sphere 3 cm in diameter is gently dropped into the cylinder. To what further height will the water in the cylinder rise?

- (a) 6 cm
- (b) 2 cm
- (c) $1/2$ cm
- (d) None of these

Q23. A copper sphere is drawn into a cylindrical wire of 4 m length. If the diameter of the sphere is ten times the diameter of the wire, then what is the radius of the sphere ?

- (a) 3 cm
- (b) 3 mm
- (c) 6 cm
- (d) 6π mm

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Q24. The dimensions of an open box are $52 \text{ cm} \times 40 \text{ cm} \times 29 \text{ cm}$. Its thickness is 2 cm. If 1 cu cm of metal used in the box weighs 0.5 g, then the weight of the box is:

- (a) 6.832 kg
- (b) 7.576 kg
- (c) 7.76 kg
- (d) 8.56 kg

Q25. A cylindrical bucket of height 36 cm and radius 21 cm is filled with sand. The bucket is emptied on the ground and a conical heap of sand is formed. The height of the conical heap is 12 cm. The radius of the heap at the base is:

- (a) 63 cm
- (b) 53 cm
- (c) 56 cm
- (d) 66 cm

Q26. A hemispherical bowl is made of steel 0.5 cm thick. The inside radius of the bowl is 4 cm. the volume of the steel used in making the bowl is:

- (a) 55.83 cm^2
- (b) 56.83 cm^2
- (c) 57.83 cm^3
- (d) 58.83 cm^3

Q27. A metallic sheet is of rectangular shape with dimensions $48 \text{ m} \times 36 \text{ m}$. From each of its corners, a square is cut off so as to make an open box. The volume of the box is $X \text{ m}^3$, when the length of the square is 8 m, the volume of X is:

- (a) 5140
- (b) 8960
- (c) 4830
- (d) 5120

Q28. The sum of length, breadth and height of a room is 19 m. The length of the diagonal is 11 m. The cost of painting the total surface area of the room at the rate of Rs. 10 per m^2 is:

- (a) Rs. 240
- (b) Rs. 2400
- (c) Rs. 420
- (d) Rs. 4200

Q29. The cost of painting the walls of a room at the rate of Rs. 1.35 per square metre is Rs. 340.20 and the cost of matting the floor at the rate of Re. 0.85 per square metre is Rs. 91.80. If the length of the room is 12 m, then the height of the room is:

- (a) 6 m
- (b) 12 m
- (c) 1.2 m
- (d) 12.6 m

Q30. Find the number of coins, 1.5 cm in diameter and 0.2 cm thick, to be melted to form a right circular cylinder of height 10 cm and diameter 4.5 cm.

- (a) 430
- (b) 440
- (c) 450
- (d) 460



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