APTITUDE QUIZ

1. What should come in place of the question mark (?) in the following question?

24% of 420 × 50% of 74 = ?

(A) 3729.6

(B) 101.17

(C) 68.432

(D) 970.46

(E) None of these

ANSWER: A

2. A semi-circular sheet of metal of diameter 28 cm. is bent into an open conical cup. The depth of the cup is approximately

(A) 15 cm.

(B) 14 cm.

(C) 11 cm.

(D) 12 cm.

ANSWER: D

3. The lateral surface area of a cylinder is 792cm^2. If its height is 14cm, then its volume (in cm^3) is? [Take π = 22/7]

(A) 2564

(B) 3929

(C) 1243

(D) 3564

ANSWER: D

4. The side of a square is 8 cm. If a square is made by joining the mid points of each sides of this square and this process goes up to infinity. Calculate the sum of areas of all the squares made.

(A) 128

(B) 256

(C) 64

(D) 32

ANSWER: A

5. A copper wire is bent in the form of an equilateral triangle and has area 121√3 cm^2 . If the same wire is bent into the form of a circle, the area (in cm^2) enclosed by the wire is (Take pi= 22 /7)

(A) 322.5 cm^2

(B) 286.5 cm^2

(C) 388.5 cm^2

(D) 346.5 cm^2

ANSWER: D

6. The length, breadth and height of a hall are 144 m, 180 m and 384 m respectively. The length of the longest scale that can measure the three dimensions of the hall exactly is:

(A) 30 m

(B) 12 m

(C) 15 m

(D) 25 m

ANSWER: B

7. A water tank is 15 meter long. 10 meter wide and 3 meter deep. The total cost to repair its four walls and bottom at the rate of 24 rupees per square meter is?

(A) Rs. 9600

(B) Rs. 4800

(C) Rs. 3600

(D) Rs.7200

ANSWER: D

8. The diameters of two cones are equal. If their slant heights are in the ratio 5: 2, then the ratio of curved surface areas of the cones is _____ .

(A) 2 : 5

(B) 5 : 2

(C) 25 : 4

(D) 4 : 5

ANSWER: B

9. If the diagonals of a rhombus are 24cm and 10cm, then the perimeter of the rhombus is _____.

(A) 48cm

(B) 52cm

(C) 40cm

(D) 56cm

ANSWER: D

10. A rectangular box measures internally 1.6 m long, 1 m broad and 60 cm deep. The number of cubical block each of edge 20 cm that can be packed inside the box is:

(A) 60

(B) 53

(C) 30

(D) 120

ANSWER: D