

Duration: 30 Mins

Total Marks: 20

ID: ITISKILL4124DU

Student Name: _____ Roll No: _____

1. How many liters of water a cylindrical tank of radius 75 cm and height 100 cm can hold?

- A) 1766.25 liters B) 1768.25 liters
C) 1767.25 liters D) 1769.25 liters

2. What is the area of a circle of diameter 50 cm?

- A) 1942.5 cm^2 B) 1962.5 cm^2
C) 1932.5 cm^2 D) 1952.5 cm^2

3. What is the area of a square whose side is 18 cm?

- A) 36 cm^2 B) 72 cm^2
C) 26 cm^2 D) 324 cm^2

4. What is the cross sectional area of a circular ring of $D = 38 \text{ mm}$ $d = 32 \text{ mm}$?

- A) 320 mm^2 B) 330 mm^2
C) 350 mm^2 D) 340 mm^2

5. What is the perimeter of scalene. Triangle having sides of 40mm, 20mm and 28mm?

- A) 98 mm B) 78 mm
C) 88 mm D) 68 mm

6. What is the area of an ellipse if the major and minor axes are 5 cm and 3 cm respectively?

- A) 57 cm^2 B) 27 cm^2
C) 47 cm^2 D) 37 cm^2

7. What is the capacity of a conical tank of radius 2 m and height 5m?

- A) 41 m^3 B) 11 m^3
C) 31 m^3 D) 21 m^3

8. Find the curved surface area of a cylinder 10 cm dia and 20 cm height?

- A) 638 cm^2 B) 628 cm^2
C) 620 cm^2 D) 630 cm^2

9. What is the perimeter of a rectangle whose length and breadth are 20 cm and 18 cm?

- A) 76 cm B) 56 cm
C) 66 cm D) 86 mm

10. What is the area of an equilateral triangle of side 450 mm?

- A) 856.82 cm^2 B) 886.82 cm^2
C) 876.82 cm^2 D) 866.82 cm^2

11. What is the area of a (A) semicircle whose dia is 20 cm (d)?

- A) 157.1 cm^2 B) 177.1 cm^2
C) 167.1 cm^2 D) 147.1 cm^2

12. What is the formula for total surface area of a cylinder?

- A) $\pi r (h + r)$ B) $\pi r h$
C) $2 \pi r h$ D) $2 \pi r (h + r)$

13. What is the area of a rectangle, whose length and breadth are 10cm and 8cm respectively?

- A) 80 cm^2 B) 85 cm^2
C) 75 cm^2 D) 90 cm^2

14. What is the volume of sphere of radius 7 cm?

- A) 1463 cm^3 B) 1636 cm^3
C) 1346 cm^3 D) 1436 cm^3

15. Find the total surface area of a cast iron bar whose length, width and height are 20m, 15m and 12m.

- A) 1640 m^2 B) 1540 m^2
C) 1440 m^2 D) 1340 m^2

16. Find the total surface area of cube whose side is 25 cm.

- A) 3750 cm^2 B) 3740 cm^2
C) 3745 cm^2 D) 3755 cm^2

17. What is the diagonal of a square plate whose side is 28 cm?

- A) 39.49 cm B) 39.59 cm
C) 39.39 cm D) 39.29 cm

18. What is the total surface area of a cylinder having radius 2 metres and height 5 metres?

A) 90 sq.metre

B) 86 sq.metre

C) 92 sq.metre

D) 88 sq.metre

19. What is the area of a right angled triangle having a base 10 cm and height 5 cm?

A) 25 sq.cm

B) 35 sq.cm

C) 30 sq.cm

D) 20 sq.cm

20. What is the side of a square whose area is 625 mm^2 ?

A) 15 mm

B) 20 mm

C) 30 mm

D) 25 mm