

Duration: 30 Mins

Total Marks: 25

ID: ITISKILL1163XV

Student Name: _____ Roll No: _____

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

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

2. What is the formula for finding volume of a hollow cylinder having outer radius 'R' inner radius 'r' and height 'h'?

- A) $\pi(R^2 - r^2)h$ B) $\pi(R^2 + r^2)h$
 C) $\frac{2}{3}\pi(R^2 - r^2)h$ D) $\frac{4}{3}\pi(R^2 + r^2)h$

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

- A) 20 sq.cm B) 25 sq.cm
 C) 35 sq.cm D) 30 sq.cm

4. What is the area of a sector of a circle of radius 5 cm and its angle is 96 Degree?

- A) 20.89 cm^2 B) 20.39 cm^2
 C) 20.98 cm^2 D) 20.93 cm^2

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

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

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

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

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

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

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 retardation of a car moving with a velocity of 50 km/hr is brought to rest in 45 seconds?

- A) 0.10 m/sec^2 B) 0.20 m/sec^2
 C) 0.40 m/sec^2 D) 0.30 m/sec^2

10. What is the volume of a rectangular tank of 30 m length, 20m width and 10m height?

- A) 5900 m^3 B) 6000 m^3
 C) 6200 m^3 D) 6100 m^3

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

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

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

- A) 92 sq.metre B) 90 sq.metre
 C) 88 sq.metre D) 86 sq.metre

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

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

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

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

15. What is the work done in joules if a load of 15.5 kg is lifted through a height of 4.4 metres?

- A) 659 Joules B) 669 Joules
 C) 639 Joules D) 649 Joules

16. What is volume of the cylinder whose radius is 7 cm and height 12 cm?

- A) 1847 c.c B) 1846 c.c
 C) 1844 c.c D) 1842 c.c

17. How many liters of water a cylindrical tank of radius 75

cm and height 100 cm can hold?

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

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

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

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

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

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

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

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

- A) 876.82 cm^2 B) 886.82 cm^2

C) 856.82 cm^2 D) 866.82 cm^2

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

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

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

- A) 30 mm B) 20 mm
C) 25 mm D) 15 mm

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

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

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

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