

7. Mensuration

Q. ID: ITISKILL7795AD

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Answer Key

Duration: 30 Mins

Total Marks: 24

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1. 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) 1340 m^2 D) 1440 m^2

Answer: D) 1440 m^2

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

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

Answer: D) 1766.25 liters

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

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

Answer: B) 324 cm^2

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

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

Answer: C) 25 mm

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

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

Answer: D) 1436 cm^3

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

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

Answer: C) 1847 c.c

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

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

Answer: B) 80 cm^2

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

- A) $\frac{2}{3} \text{ Pi} (R^2 - r^2) h$ B) $\frac{\text{Pi}}{3} (R^2 - r^2) h$

C) $\frac{4}{3} \text{ Pi} (R^2 - r^2) h$ D) $\text{Pi} (R^2 - r^2) h$

Answer: D) $\text{Pi} (R^2 - r^2) h$

9. 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

Answer: C) 88 mm

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

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

Answer: C) 47 cm^2

11. What is the cross sectional area of a circular ring of D = 38 mm d = 32mm?

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

Answer: D) 330 mm^2

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

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

Answer: D) 21 m^3

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

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

Answer: A) 628 cm^2

14. 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

Answer: B) 1962.5 cm^2

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

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

Answer: B) 3750 cm^2

16. 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

Answer: C) 876.82 cm^2

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

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

Answer: B) 6000 m^3

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

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

Answer: B) 76 cm

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

- A) 2 Pi rh B) 2 Pi r (h + r)
C) Pi r (h + r) D) Pi rh

Answer: B) 2 Pi r (h + r)

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

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

Answer: B) 157.1 cm^2

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

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

Answer: A) 39.59 cm

22. 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) 86 sq.metre D) 88 sq.metre

Answer: D) 88 sq.metre

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

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

Answer: B) 25 sq.cm

24. 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) 20.93 cm^2
C) 20.98 cm^2 D) 20.39 cm^2

Answer: B) 20.93 cm^2