

7. Mensuration

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Question Paper

Duration: 30 Mins

Total Marks: 24

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Student Name: _____ Roll No: _____

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- A) 1842 c.c B) 1844 c.c

- C) 1847 c.c D) 1846 c.c

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

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

11. 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) 35 sq.cm D) 20 sq.cm

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

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

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

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

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

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

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

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

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

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

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

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

18. 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

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

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

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

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

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

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

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

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

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

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

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

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