

Duration: 30 Mins

Total Marks: 25

ID: ITISKILL8687FK

Student Name: _____	Roll No: _____
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1. How many liters of water a cylindrical tank of radius 75 cm and height 100 cm can hold?

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

2. 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

3. What is the ratio of power output to power input?

- A) Energy B) Acceleration
C) Efficiency D) Work

4. What is the acceleration of a car if the speed of the car has increased from 25 km per hour to 40 km per hour in one minute?

- A) 0.059 m/sec^2 B) 0.069 m/sec^2
C) 0.59 m/sec^2 D) 0.69 m/sec^2

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

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

6. 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 cm

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

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

8. What is the acceleration of an aeroplane taking off from landing field has to run 700 metres if it leaves the ground in 10 seconds from the start?

- A) 8 metre/sec^2 B) 12 metre/sec^2

- C) 14 metre/sec^2 D) 10 metre/sec^2

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

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

10. 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

11. What is the potential energy in a body of mass 10 kg kept on the top of a pole 20 metres height?

- A) 1942 Joules B) 1972 Joules
C) 1952 Joules D) 1962 Joules

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

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

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

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

14. What is the work done, if a force of 250 newtons acted upon a body and the body has been moved through a distance of 15 metres?

- A) 3740 Joules B) 3750 Joules
C) 3720 Joules D) 3730 Joules

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

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

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

A) 1842 c.c
C) 1847 c.c

B) 1846 c.c
D) 1844 c.c

A) 324 cm^2
C) 26 cm^2

B) 72 cm^2
D) 36 cm^2

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

A) 30 mm
C) 15 mm

B) 25 mm
D) 20 mm

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

A) 39.49 cm
C) 39.29 cm

B) 39.39 cm
D) 39.59 cm

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

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

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

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

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

22. What is called if a body posses both magnitude and direction of velocity?

A) Speed
C) Vector quantity

B) Velocity
D) Scalar quantity

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

A) 78 mm
C) 98 mm

B) 88 mm
D) 68 mm

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

A) 11 m^3
C) 21 m^3

B) 31 m^3
D) 41 m^3

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

A) 85 cm^2
C) 90 cm^2

B) 80 cm^2
D) 75 cm^2