

Duration: 60 Mins

Total Marks: 25

ID: ITISKILL5460DV

Student Name: _____

Roll No: _____

1. What is the specific gravity of the solid, if density of the solid is 19.5 g/cm^3 ?

- A) 8
B) 18.5
C) 19.5
D) 19

2. Convert decimal 0.000659 to fraction?

- A) $(659/1000000)$
B) $(659/10000)$
C) $(659/100000)$
D) $(659/1000)$

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

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

4. What is the formula for potential energy?

- A) mgh joule
B) $\frac{2}{3}$ mgh joule
C) $\frac{1}{2}$ mgh joule
D) mgh^2 joule

5. Which law states about electromagnetic induction?

- A) Ohm's law
B) Lenz's law
C) Hooke's law
D) Faraday's law

6. What are fundamental units?

- A) Length, Mass, Volume
B) Length, Mass, Time
C) Length, Mass, Area
D) Length, Pressure, Volume

7. What is the square root of 529? | 529 ರ ವರ್ಗಮೂಲ ಯಾವುದು?

- A) 33
B) 23
C) 13
D) 43

8. 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) 1340 m^2
C) 1440 m^2
D) 1540 m^2

9. What is the voltage? $R = 250 \text{ Ohms}$ $I = 0.44 \text{ Amps}$ $V = \text{_____ Volts}$

- A) 110 Volts
B) 105 Volts

C) 100 Volts

D) 108 Volts

10. Which steel is used for making files and cold chisel?

- A) High carbon steel
B) Medium carbon steel
C) Low carbon steel
D) Stainless steel

11. Which is equal to $\sin \theta$? | ಯಾವುದು $\sin \theta$ ಗೆ ಸಮಾನ?

(A) $\frac{\text{Opposite side}}{\text{Hypotenuse}}$

(B) $\frac{\text{Hypotenuse}}{\text{Opposite side}}$

(C) $\frac{\text{Adjacent side}}{\text{Hypotenuse}}$

(D) $\frac{\text{Hypotenuse}}{\text{Adjacent side}}$

A) B

B) A

C) D

D) C

12. What is the formula for induced emf?

- A) $BLV \sin \theta$ volts
B) $B^2 V \sin \theta$ volts
C) $B^2 L \sin \theta$ volts
D) $BL \sin \theta$ volts

13. What is the resistance? $I = 11.5 \text{ Amps}$ $V = 380 \text{ Volts}$ $R = \text{_____ Ohms}$

- A) 33 ohms
B) 23 ohms
C) 43 ohms
D) 13 ohms

14. What is the value of $\tan 45^\circ$ if $\sin 45^\circ = \frac{1}{\sqrt{2}}$? | $\sin 45^\circ = \frac{1}{\sqrt{2}}$ ಆಗಿದ್ದರೆ $\tan 45^\circ$ ಮೌಲ್ಯವೆಷ್ಟು?

(A) $\frac{1}{\sqrt{2}}$

(B) $\frac{\sqrt{3}}{2}$

(C) 1

(D) $\frac{1}{\sqrt{3}}$

- A) A
C) B
- B) C
D) D

15. What is the unit of acceleration of an object?

- A) Metre/second²
C) Metre/minutes
- B) Metre/second
D) Metre/minutes²

16. What is the resistance of an electric iron if the rating of electric iron is 220 V and 500 watts?

- A) 95.8 ohms
C) 97.8 ohms
- B) 94.8 ohms
D) 96.8 ohms

17. How many hours will take for a 100 watts bulb to consume 1 kwh energy?
W = 1 Kwh
P = 100 Watts
t = ____Hours

- A) 12 hours
C) 18 hours
- B) 24 hours
D) 10 hours

18. Which is very good conductor?

- A) Copper
C) Wrought iron
- B) Cast iron
D) Steel

19. What is called if a body posses only magnitude or size alone?

- A) Vector quantity
C) Speed
- B) Velocity
D) Scalar quantity

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

- A) 324 cm²
C) 72 cm²
- B) 26 cm²
D) 36 cm²

21. What is the length of each part is a copper wire of 225 metre long is cut into 900 equal parts?

- A) 0.23 metre
C) 0.25 metre
- B) 0.28 metre
D) 0.29 metre

22. What maximum height a stone will reach if it is thrown upwords with a velocity of 20m/sec?(g = 10m/sec²)

- A) 20 m
C) 30 m
- B) 10 m
D) 40 m

23. Which metal contains iron as a major content?

- A) Ferrous metal
C) Brass metal
- B) Bronze metal
D) Zinc

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

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

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

- A) 6200 m³
C) 5900 m³
- B) 6100 m³
D) 6000 m³