

Duration: 60 Mins

Total Marks: 25

ID: ITISKILL6928ZF

Student Name: _____

Roll No: _____

1. How many hours will take for a 100 watts bulb to consume 1 kwh energy?
 $W = 1 \text{ Kwh}$
 $P = 100 \text{ Watts}$
 $t = \text{_____ Hours}$

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

2. Which machine converts mechanical energy into electrical energy?

- A) Generator B) Iron box
C) Battery D) Heater

3. What is the kinetic energy of a bullet of mass 5gm travels with a speed of 500 m/sec?

- A) 630 Joules B) 635 Joules
C) 620 Joules D) 625 Joules

4. How many ergs for 1 Joule?

- A) 10^7 ergs B) 10^9 ergs
C) 10^3 ergs D) 10^5 ergs

5. What is called if a force of 1Newton acts on a body and moves it through a distance of 1 metre?

- A) 1 Joule B) 10 Joules
C) 10 dynes D) 1 dyne

6. 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) 1340 m^2
C) 1440 m^2 D) 1640 m^2

7. Which is the unit of current? | ಪ್ರವಾಹದ ಮೂಲಮಾನ ಯಾವುದು?

- A) Ampere | ಆಂಪಿಯರ್ B) Volt | ವೋಲ್ಟ್
C) Ohm | ಓಂ D) Watt | ವ್ಯಾಟ್

8. What is called if a body does not change its position with respect to its surroundings?

- A) Speed B) Body at rest
C) Body at motion D) Velocity

9. Which is the unit of resistance?

- A) Ohm B) Ampere
C) Watt D) Volt

10. What are the two classifications of system of units?

- A) Metric and International B) Fundamental and derived
C) British and Metric D) Gravitational and non-gravitational

11. Which metal contains iron as a major content?

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

12. 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) 1769.25 liters D) 1766.25 liters

13. What is the speed of a train of 80 metre long train passes a railway station platform of 120 metres length in 20 seconds?

- A) 30 km/hour B) 36 km/hour
C) 32 km/hour D) 34 km/hour

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

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

15. How many watts for 1 horse power in British system?

- A) 736 watts B) 746 watts
C) 756 watts D) 726 watts

16. What is the percentage of copper if the casting weight of copper 42.3 kg and tin weight 2.7 kg?

- A) Cu 98% B) Cu 92%
C) Cu 94% D) Cu 96%

17. What is the decimal fraction of conversion of 18.5%?

- A) 0.185 B) 0.195

C) 0.165

D) 0.175

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

A) $2 \pi r (h + r)$

B) $2 \pi r h$

C) $\pi r (h + r)$

D) $\pi r h$

19. What is the area of a rectangle, whose length and breadth are 10cm and 8cm respectively? | ಉದ್ದ ಮತ್ತು ಅಗಲ ಕ್ರಮವಾಗಿ 10 ಸೆ.ಮೀ ಮತ್ತು 8 ಸೆ.ಮೀ. ಇರುವ ಆಯತದ ವಿಸ್ತೀರ್ಣ ಎಷ್ಟು?

A) 90 cm^2

B) 75 cm^2

C) 85 cm^2

D) 80 cm^2

20. Which among the following is an insulator?

A) Silver

B) Mica

C) Aluminium

D) Copper

21. How much watt second in 1 watt hour?

A) 4000 watt sec

B) 1000 watt sec

C) 2000 watt sec

D) 3600 watt sec

22. How many millimetres are there in 1 inch? | 1 ಇಂಚಿನಲ್ಲಿ ಎಷ್ಟು ಮಿಲಿಮೀಟರ್‌ಗಳಿವೆ?

A) 25.4 mm

B) 24.5 mm

C) 2.54 mm

D) 2.45 mm

23. What is the mass in gram, if a force of 15 dyres acting on a mass m producing an acceleration of 2.5 cm/sec^2 ?

A) 8 grams

B) 7 grams

C) 9 grams

D) 6 grams

24. What is the name of furnace to obtained cast iron?

A) Cupola

B) Mild steel - Blast furnace

C) Steel - Rever battery

D) Alloy metal - Electric furnace

25. What is the improper fraction for the given mixed fraction ? $7 \times (3/7)$

A) $7/52$

B) $(52/7)$

C) $7/28$

D) $28/7$