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Score: 7/25 (28.00%)

Code: 4885

1. Which machine converts mechanical energy into electrical energy?

- A) Battery
B) **Generator**
C) Heater
D) Iron box (Incorrect)

2. Which is the unit of resistance?

- A) Ampere
B) Volt (Incorrect)
C) **Ohm**
D) Watt

3. What is the resistance?

$I = 11.5$ Amps
 $V = 380$ Volts
 $R = \underline{\hspace{2cm}}$ Ohms

- A) 13 ohms (Incorrect)
B) 23 ohms
C) **33 ohms**
D) 43 ohms

4. How much watt second in 1 watt hour?

- A) 1000 watt sec
B) 2000 watt sec
C) **3600 watt sec (Correct)**
D) 4000 watt sec

5. How many hours will take for a 100 watts bulb to consume 1 kwh energy?

$W = 1$ Kwh
 $P = 100$ Watts
 $t = \underline{\hspace{2cm}}$ Hours

- A) **10 hours**
B) 12 hours (Incorrect)
C) 18 hours
D) 24 hours

6. 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) 9 grams
B) 8 grams (Incorrect)
C) 7 grams
D) **6 grams**

7. Which metal contains iron as a major content?

- A) Brass metal
B) Bronze metal
C) Zinc
D) **Ferrous metal (Correct)**

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

A) **Cupola**

C) Steel - Rever battery

B) Mild steel - Blast furnace (Incorrect)

D) Alloy metal - Electric furnace

9. Which among the following is an insulator?

- A) Copper
B) Aluminium
C) Silver (Incorrect)
D) **Mica**

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

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

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

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

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

- A) **1766.25 liters (Correct)**
B) 1767.25 liters
C) 1768.25 liters
D) 1769.25 liters

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

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

14. 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 (Incorrect)
B) 32 km/hour
C) 34 km/hour
D) **36 km/hour**

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

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

16. How many ergs for 1 Joule?

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

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

- A) 726 watts
B) 736 watts
C) **746 watts**
D) 756 watts (Incorrect)

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

- A) 620 Joules
B) **625 Joules (Correct)**
C) 630 Joules
D) 635 Joules

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

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

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

- A) **0.185**
B) 0.175
C) 0.165 (Incorrect)
D) 0.195

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

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

22. What is the improper fraction for the given mixed fraction ? $7 \frac{3}{7}$

- A) **(52/7)**
B) "7/52"
C) "28/7" (Incorrect)
D) "7/28"

23. 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) 75 cm²
B) **80 cm²**
C) 85 cm²
D) 90 cm² (Incorrect)

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

- A) 2.54 mm (Incorrect)
B) **25.4 mm**
C) 24.5 mm
D) 2.45 mm

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

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