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Score: 9/25 (36.00%)

Code: 8596

1. Which is mineral insulator

- A) Glass
B) Quartz
C) Mica (Correct)
D) Porcelain

2. What is the voltage?

$R = 250 \text{ Ohms}$
 $I = 0.44 \text{ Amps}$
 $V = \text{ ______ Volts}$

- A) 100 Volts (Incorrect)
B) 105 Volts
C) 108 Volts
D) 110 Volts

3. What does EMF stands for?

- A) Electronic Magnetic Force (Incorrect)
B) Electro Motive Force
C) Electro Magnetic Force
D) Electromated Force

4. Which is the example for statically induced emf?

- A) Generator (Incorrect)
C) Transformer
B) Motor
D) Refrigerator

5. Which is the example for dynamically induced Emf?

- A) Motor (Incorrect)
B) Generator
C) Car
D) Motor bike

6. 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 (Incorrect)
D) 19.5

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

- A) 9 grams (Incorrect)
B) 8 grams
C) 7 grams
D) 6 grams

8. What is the weight force of a car has a mass of 800 kg? (Take $g = 9.81 \text{ m/sec}^2$)

- A) 7848 Newton**
B) 7748 Newton (Incorrect)
C) 7847 Newton
D) 7487 Newton

9. What is the carbon percentage in high carbon steel?

- A) 0.02% to 0.03%
B) 0.15% to 0.25%
C) 0.25% to 0.50% (Incorrect)
D) 0.50% to 1.50%

10. What is the cross sectional area of a circular ring of $D = 38 \text{ mm}$ $d = 32 \text{ mm}$?

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

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

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

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

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

13. 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) 0.59 m/sec^2
C) 0.069 m/sec^2
D) 0.69 m/sec^2 (Incorrect)

14. What maximum height a stone will reach if it is thrown upwards with a velocity of 20 m/sec ? ($g = 10 \text{ m/sec}^2$)

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

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

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

16. What is the formula for potential energy?

- A) $mgh \text{ joule}$**
B) $mgh^2 \text{ joule}$
C) $1/2 mgh \text{ joule}$ (Incorrect)
D) $2/3 mgh \text{ joule}$

17. What is the ratio of 4 kg to 800 grams?

- A) 05:01 (Correct)**
B) 04:08

C) 08:04

D) 02:04

18. What percentage of 80 is 20?

A) 0.8

B) 0.4

C) 0.25 (Correct)

D) 0.2

19. What is the square root of decimal number 550.37?

A) 21.26 (Incorrect)

B) 22.26

C) 22.46

D) 23.46

20. What denotes letter M in MKS system?

A) Mile

B) Meter (Correct)

C) Millimeter

D) Micron

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

A) (52/7) (Correct)

B) "7/52"

C) "28/7"

D) "7/28"

22. Divide $(20/31)/(15/62)$

A) $2(4/3)$

B) $2(1/3)$

C) $2(3/2)$

D) $2(2/3)$ (Correct)

23. Simplify: $(17.49 \times 5.2)/(6.5)$

A) 13.69

B) 13.79

C) 13.89

D) 13.99 (Correct)

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

A) 13

B) 23 (Correct)

C) 33

D) 43

25. What is called mass per unit volume of a substances? | ವಸ್ತುವಿನ ಪ್ರತಿ ಯೂನಿಟ್ ಪರಿಮಾಣದ ದ್ರವ್ಯರಾಶಿಗೆ ಏನು ಎಂದು ಕರೆಯಲಾಗುತ್ತದೆ?

A) Mass | ದ್ರವ್ಯರಾಶಿ

B) Weight | ತೂಕ

C) Density | ಸಾಂದ್ರತೆ (Correct)

D) Volume | ಗಾತ್ರ