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Score: 10/25 (40.00%)

Code: 1166

1. Which is mineral insulator

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

A) 0.02% to 0.03%

B) 0.15% to 0.25%

C) 0.25% to 0.50%

D) 0.50% to 1.50% (Correct)

2. What is the voltage?

R = 250 Ohms

I = 0.44 Amps

V = ____ Volts

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

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

A) 320 mm²

B) 330 mm² (Correct)

C) 340 mm²

D) 350 mm²

3. What does EMF stands for?

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

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

A) 3740 cm²

B) 3745 cm²

C) 3750 cm²

D) 3755 cm² (Incorrect)

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

A) 11 m³

B) 21 m³ (Correct)

C) 31 m³

D) 41 m³

4. Which is the example for statically induced emf?

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

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/sec²

B) 0.59 m/sec²

C) 0.069 m/sec²

D) 0.69 m/sec² (Incorrect)

5. Which is the example for dynamically induced Emf?

- A) Motor
B) **Generator (Correct)**
C) Car
D) Motor bike

6. What is the specific gravity of the solid, if density of the solid is 19.5 g/cm³?

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

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

A) 10 m

B) 20 m

C) 30 m

D) 40 m (Incorrect)

7. What is the mass in gram, if a force of 15 dyres acting on a mass m producing an acceleration of 2.5 cm/sec²?

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

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

B) 10 Joules

C) 1 dyne

D) 10 dynes (Incorrect)

8. What is the weight force of a car has a mass of 800 kg? (Take g = 9.81m/sec)

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

16. What is the formula for potential energy?

A) mgh joule

B) mgh² joule (Incorrect)

C) 1/2 mgh joule

D) 2/3 mgh joule

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

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 (Incorrect)

C) 0.25

D) 0.2

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

A) 21.26

B) 22.26

C) 22.46 (Incorrect)

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 ? $7 \times (3/7)$

A) (52/7)

B) "7/52"

C) "28/7"

D) "7/28" (Incorrect)

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

C) 33 (Incorrect)

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

D) Volume | ಗಾತ್ರ (Incorrect)