

Student: MANU N

Score: 17/25 (68.00%)

Code: 9913

1. Which is mineral insulator

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

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
D) 110 Volts (Correct)
C) 108 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**
C) Electro Magnetic Force
D) Electromated Force (Incorrect)

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

A) 3740 cm²

B) 3745 cm²

C) 3750 cm² (Correct)

D) 3755 cm²

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

A) 11 m³ (Incorrect)

B) 21 m³

C) 31 m³

D) 41 m³

4. Which is the example for statically induced emf?

- A) Generator
B) Motor
C) Transformer (Correct)
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 (Incorrect)

B) 0.59 m/sec²

C) 0.069 m/sec²

D) 0.69 m/sec²

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/cm³?

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

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 (Correct)

C) 30 m

D) 40 m

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
D) 6 grams (Correct)
C) 7 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 (Correct)

B) 10 Joules

C) 1 dyne

D) 10 dynes

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
D) 7487 Newton (Incorrect)

16. What is the formula for potential energy?

A) mgh joule (Correct)

B) mgh² joule

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
C) 0.25 (Correct) D) 0.2

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

- A) 21.26 B) 22.26
C) 22.46 D) 23.46 (Correct)

20. What denotes letter M in MKS system?

- A) Mile B) Meter
C) Millimeter (Incorrect) D) Micron

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

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

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

- A) $2(4/3)$ (Incorrect) B) $2(1/3)$
C) $2(3/2)$ D) 2(2/3)

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? |
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ಕರೆಯಲಾಗುತ್ತದೆ?

- A) Mass | ದ್ರವ್ಯರಾಶಿ B) Weight | ತೂಕ
C) Density | ಸಾಂದ್ರತೆ (Correct) D) Volume | ಗಾತ್ರ