

Student: Shreyas krishna sk

Score: 8/25 (32.00%)

Code: 2044

1. Which is mineral insulator

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

2. What is the voltage?

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

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

3. What does EMF stands for?

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

4. Which is the example for statically induced emf?

- A) Generator  
B) Motor  
**C) Transformer**  
D) Refrigerator (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  $19.5 \text{ g/cm}^3$ ?

- A) 8  
B) 18.5 (Incorrect)  
C) 19  
**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  $2.5 \text{ cm/sec}^2$ ?

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

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  
C) 7847 Newton (Incorrect)  
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)  $320 \text{ mm}^2$  (Incorrect)  
B)  **$330 \text{ mm}^2$**   
C)  $340 \text{ mm}^2$   
D)  $350 \text{ mm}^2$

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

- A)  $3740 \text{ cm}^2$   
B)  $3745 \text{ cm}^2$   
C)  **$3750 \text{ cm}^2$  (Correct)**  
D)  $3755 \text{ cm}^2$

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

- A)  $11 \text{ m}^3$   
B)  **$21 \text{ m}^3$  (Correct)**  
C)  $31 \text{ m}^3$   
D)  $41 \text{ m}^3$

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)  $0.059 \text{ m/sec}^2$   
B)  $0.59 \text{ m/sec}^2$  (Incorrect)  
C)  **$0.069 \text{ m/sec}^2$**   
D)  $0.69 \text{ m/sec}^2$

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

- 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 (Incorrect)  
C) 1 dyne  
D) 10 dynes

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**  
B) 04:08 (Incorrect)

C) 08:04

D) 02:04

18. What percentage of 80 is 20?

A) 0.8

B) 0.4

**C) 0.25**

D) 0.2 (Incorrect)

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**

C) Millimeter (Incorrect)

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)  $2(3/2)$  (Incorrect)

**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? | ವಸ್ತುವಿನ ಪ್ರತಿ ಯೂನಿಟ್ ಪರಿಮಾಣದ ದ್ರವ್ಯರಾಶಿಗೆ ಏನು ಎಂದು ಕರೆಯಲಾಗುತ್ತದೆ?

A) Mass | ದ್ರವ್ಯರಾಶಿ

B) Weight | ತೂಕ

**C) Density | ಸಾಂದ್ರತೆ (Correct)**

D) Volume | ಗಾತ್ರ