

Duration: 60 Mins

Total Marks: 25

Q.ID: ITISKILL12287P

1. What denotes letter M in MKS system?

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

Answer: D) Meter

2. Which is the example for statically induced emf?

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

Answer: C) Transformer

3. Which is the example for dynamically induced Emf?

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

Answer: C) Generator

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

- A) 43 B) 13  
C) 23 D) 33

Answer: C) 23

5. Which is mineral insulator

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

Answer: A) Mica

6. What maximum height a stone will reach if it is thrown upwards with a velocity of 20m/sec?(g = 10m/sec<sup>2</sup>)

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

Answer: B) 20 m

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

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

Answer: A) 0.50% to 1.50%

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

- A) 08:04 B) 05:01  
C) 04:08 D) 02:04

Answer: B) 05:01

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

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

Answer: D) 2(2/3)

10. What is the specific gravity of the solid, if density of the solid is 19.5 g/cm<sup>3</sup>?

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

Answer: C) 19.5

11. What is the voltage? <br> R = 250 Ohms <br> I = 0.44 Amps <br> V = \_\_\_\_Volts

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

Answer: D) 110 Volts

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

- A) 3740 cm<sup>2</sup> B) 3755 cm<sup>2</sup>  
C) 3750 cm<sup>2</sup> D) 3745 cm<sup>2</sup>

Answer: C) 3750 cm<sup>2</sup>

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

- A) 320 mm<sup>2</sup> B) 350 mm<sup>2</sup>  
C) 330 mm<sup>2</sup> D) 340 mm<sup>2</sup>

Answer: C) 330 mm<sup>2</sup>

14. Simplify: (17.49x5.2)/(6.5)

- A) 13.99 B) 13.79  
C) 13.89 D) 13.69

Answer: A) 13.99

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

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

Answer: A) 23.46

16. What is the formula for potential energy?

- A) 1/2 mgh joule B) mgh joule  
C) mgh<sup>2</sup> joule D) 2/3 mgh joule

Answer: B) mgh joule

17. 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)  $0.69 \text{ m/sec}^2$  B)  $0.069 \text{ m/sec}^2$   
C)  $0.59 \text{ m/sec}^2$  D)  $0.059 \text{ m/sec}^2$

Answer: B)  $0.069 \text{ m/sec}^2$

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

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

Answer: D)  $21 \text{ m}^3$

19. What does EMF stands for?

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

Answer: B) Electro Motive Force

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

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

Answer: D) Density | ಸಾಂದ್ರತೆ

21. What is the improper fraction for the given mixed fraction

?  $7 \frac{3}{7}$

- A)  $\frac{28}{7}$  B)  $\frac{52}{7}$   
C)  $\frac{7}{52}$  D)  $\frac{7}{28}$

Answer: B)  $\frac{52}{7}$

22. 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) 7487 Newton  
C) 7847 Newton D) 7748 Newton

Answer: A) 7848 Newton

23. 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) 8 grams B) 9 grams  
C) 7 grams D) 6 grams

Answer: D) 6 grams

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

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

Answer: D) 1 Joule

25. What percentage of 80 is 20?

- A) 0.2 B) 0.8  
C) 0.4 D) 0.25

Answer: D) 0.25