

Duration: 30 Mins

Total Marks: 40

Q.ID: ITISKILL0655E4

1. What is velocity of a body travels a distance of 168 metres in a line in 21 seconds?

- A) 8 m/sec
B) 6 m/sec
C) 12 m/sec
D) 10 m/sec

Answer: A) 8 m/sec

2. What is the value of $\tan 45^\circ$ if $\sin 45^\circ = \frac{1}{\sqrt{2}}$? | $\sin 45^\circ = \frac{1}{\sqrt{2}}$ ಆಗಿದ್ದರೆ $\tan 45^\circ$ ಮೌಲ್ಯವೆಷ್ಟು?

(A) $\frac{1}{\sqrt{2}}$

(B) $\frac{\sqrt{3}}{2}$

(C) 1

(D) $\frac{1}{\sqrt{3}}$

- A) A
C) D
B) C
D) B

Answer: B) C

3. What is the boiling point of water? | ನೀರಿನ ಕುದಿಯುವ ಬಿಂದು ಯಾವುದು?

- A) 0°C
B) 100°C
C) 212°C
D) 32°C

Answer: B) 100°C

4. What is the work done in unit time?

- A) Power
B) Energy
C) Force
D) Acceleration

Answer: A) Power

5. Which is the unit of current?

- A) Ampere
B) Watt
C) Ohm
D) Volt

Answer: A) Ampere

6. What is the current? $R = 50 \text{ Ohms}$ $V = 220 \text{ Volts}$
 $I = \text{_____Amps}$

- A) 4.4 Amps
B) 4.3 Amps
C) 4.1 Amps
D) 4.2 Amps

Answer: A) 4.4 Amps

7. Which is same in series connection of resistors in a circuit?

- A) Current
B) Power
C) Voltage
D) Resistance

Answer: A) Current

8. What is called if a body changes its position with respect to its surroundings?

- A) Velocity
B) Speed
C) Body at motion
D) Body at rest

Answer: C) Body at motion

9. What is the speed of a train of 80 metre long train passes a railway station platform of 120 metres length in 20 seconds?

- A) 36 km/hour
B) 32 km/hour
C) 30 km/hour
D) 34 km/hour

Answer: A) 36 km/hour

10. How much power does it consumes if an electric heater draws a current of 10 amps at 200 volts?

- A) 2030 watts
B) 2000 watts
C) 2020 watts
D) 2010 watts

Answer: B) 2000 watts

11. Which is the unit of resistance?

- A) Ohm
B) Ampere
C) Volt
D) Watt

Answer: A) Ohm

12. What is the length L_2 , if total length (L) is 2.75 metre and $L_1:L_2 = 2:3$?

- A) 1.25 metre
B) 1.65 metre
C) 1.75 metre
D) 1.1 metre

Answer: B) 1.65 metre

13. Which among the following is an insulator?

- A) Mica
B) Silver
C) Copper
D) Aluminium

Answer: A) Mica

14. What is the area of an ellipse if the major and minor axes are 5 cm and 3 cm respectively?

- A) 47 cm^2
B) 37 cm^2
C) 57 cm^2
D) 27 cm^2

Answer: A) 47 cm^2

15. What is the area of a right angled triangle having a base

10 cm and height 5 cm?

- A) 25 sq.cm B) 35 sq.cm
C) 30 sq.cm D) 20 sq.cm

Answer: A) 25 sq.cm

16. What is the length of each part is a copper wire of 225 metre long is cut into 900 equal parts?

- A) 0.29 metre B) 0.25 metre
C) 0.23 metre D) 0.28 metre

Answer: B) 0.25 metre

17. What is the name of furnace to obtained cast iron?

- A) Steel - Rever battery B) Alloy metal - Electric furnace
C) Mild steel - Blast furnace D) Cupola

Answer: D) Cupola

18. How many days a mechanic takes to assemble 64 machines if he assembles 8 machines in 3 days?

- A) 24 days B) 20 days
C) 26 days D) 22 days

Answer: A) 24 days

19. Which is brittle metal?

- A) Cast iron B) Mild steel
C) Steel D) Alloy steel

Answer: A) Cast iron

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

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

Answer: D) 20 m

21. What is the area of a sector of a circle of radius 5 cm and its angle is 96 Degree?

- A) 20.93 cm² B) 20.89 cm²
C) 20.39 cm² D) 20.98 cm²

Answer: A) 20.93 cm²

22. Simplify: (3/4)+(2/5)-(5/20)

- A) (3/10) B) (13/10)
C) (9/10) D) (12/10)

Answer: C) (9/10)

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

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

Answer: B) 0.50% to 1.50%

24. What is called if a body does not change its position with respect to its surroundings?

- A) Velocity B) Speed
C) Body at motion D) Body at rest

Answer: D) Body at rest

25. What is the x value for $x^2 + 62 = 126$?

- A) 4 B) 10
C) 8 D) 6

Answer: C) 8

26. What is the retardation of a car moving with a velocity of 50 km/hr is brought to rest in 45 seconds?

- A) 0.20 m/sec² B) 0.40 m/sec²
C) 0.30 m/sec² D) 0.10 m/sec²

Answer: C) 0.30 m/sec²

27. How much watt second in 1 watt hour?

- A) 4000 watt sec B) 1000 watt sec
C) 2000 watt sec D) 3600 watt sec

Answer: D) 3600 watt sec

28. Which property of material enables to formation of permanent deformation without fracture?

- A) Plasticity B) Brittleness
C) Ductility D) Elasticity

Answer: A) Plasticity

29. Which one of the following properties is the mechanical properties of metal?

- A) Fusibility B) Structure
C) Corrosion D) Ductility

Answer: D) Ductility

30. What is the unit of intensity of magnetic field?

- A) Hertz B) wb/m
C) m/wb D) Coloumb

Answer: B) wb/m

31. What does EMF stands for?

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

Answer: A) Electro Motive Force

32. Which metal cannot be forged?

- A) Steel B) Mild steel
C) Alloy steel D) Cast iron

Answer: D) Cast iron

33. Convert 0.456 decimal fraction into percentage?

A) 0.456

B) 45.6

C) 0.0456

D) 0.000456

Answer: B) 45.6

34. What is the carbon percentage in medium carbon steel?

A) 0.05% to 0.15%

B) 0.25% to 0.5%

C) 0.15% to 0.25%

D) 0.5% to 1.5%

Answer: B) 0.25% to 0.5%

35. What is the resistance of an electric iron if the rating of electric iron is 220 V and 500 watts?

A) 95.8 ohms

B) 96.8 ohms

C) 94.8 ohms

D) 97.8 ohms

Answer: B) 96.8 ohms

36. What is the flow of electrons in any conductor?

A) Current

B) Resistance

C) Power

D) Voltage

Answer: A) Current

37. What is the potential energy in a body of mass 10 kg kept

on the top of a pole 20 metres height?

A) 1972 Joules

B) 1962 Joules

C) 1942 Joules

D) 1952 Joules

Answer: B) 1962 Joules

38. Which property of a substance is opposing the flow of electric current?

A) Current

B) Voltage

C) Resistance

D) EMF

Answer: C) Resistance

39. What is the area of a circle of diameter 50 cm?

A) 1942.5 cm^2

B) 1952.5 cm^2

C) 1932.5 cm^2

D) 1962.5 cm^2

Answer: D) 1962.5 cm^2

40. What is the ratio of power output to power input? | ವಿದ್ಯುತ್ ಉತ್ಪಾದನೆಯ ವಿದ್ಯುತ್ ಇನ್ಪುಟ್ ಅನುಪಾತ ಎಷ್ಟು ?

A) Efficiency

B) Acceleration

C) Energy

D) Work

Answer: A) Efficiency