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Score: 9/30 (30.00%)

Code: 9476

1. Which machine converts mechanical energy into electrical energy?

- A) Battery
 B) **Generator**
 C) Heater
 D) Iron box (Incorrect)

2. Which is the unit of current?

- A) **Ampere (Correct)**
 B) Volt
 C) Ohm
 D) Watt

3. Which is the unit of resistance?

- A) Ampere
 B) Volt
 C) **Ohm**
 D) Watt (Incorrect)

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

- A) Voltage
 B) **Current**
 C) Resistance (Incorrect)
 D) Power

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

- A) Current
 B) Voltage
 C) **Resistance (Correct)**
 D) EMF

6. Which is very good conductor?

- A) **Copper (Correct)**
 B) Cast iron
 C) Wrought iron
 D) Steel

7. Which is mineral insulator

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

8. What is the total resistance if three resistances of 3 ohms, 9 ohms and 5 ohms are connected in series?

- A) 11 ohms (Incorrect)
 B) 7 ohm
 C) **17 ohms**
 D) 1/17 ohms

9. What is the total resistance if two resistances of 4 ohms and 6 ohms are connected in parallel?

- A) 10
 B) **2.4 (Correct)**
 C) 5
 D) 4

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

- A) **Current**
 B) Voltage

- C) Resistance
 D) Power (Incorrect)

11. Which law states that at constant temperature the current passing through a closed circuit is directly proportional to the potential difference and inversely proportional to the resistance?

- A) **Ohm's law**
 B) Lenz's law
 C) Newton's law
 D) Hooke's law (Incorrect)

12. What is the resistance?

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 $I = 11.5 \text{ Amps}$

 $V = 380 \text{ Volts}$

 $R = \text{_____ Ohms}$
 A) 13 ohms (Incorrect)
 B) 23 ohms
 C) **33 ohms**
 D) 43 ohms

13. What is the current?

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 $R = 50 \text{ Ohms}$

 220 Volts

 $I = \text{_____ Amps}$
 A) 4.1 Amps (Incorrect)
 B) 4.2 Amps
 C) 4.3 Amps
 D) **4.4 Amps**

14. What is the voltage?

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 $R = 250 \text{ Ohms}$

 $I = 0.44 \text{ Amps}$

 $V = \text{_____ Volts}$
 A) 100 Volts
 B) 105 Volts
 C) 108 Volts
 D) **110 Volts (Correct)**

15. Which statement is correct according to ohm's law?

- A) $I = 1/V$
 B) $I = R$
 C) **$I = V/R$ (Correct)**
 D) $I = R/V$

16. What is the filament resistance if a 6 volt bulb draws a current of 0.5 Amps?

- A) **12 W (Correct)**
 B) 10 W
 C) 3 W
 D) 1.2 W

17. How much watt second in 1 watt hour?

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

18. What is the power if an emf of one volt causes a current flow of 1 ampere?

- A) 1 watt (Correct)**
B) 1 kilowatt
C) 1 HP
D) 1 Kilowatt hour

19. Which is equal to electric power?

- A) $R^2 I$ watts (Incorrect)
B) **$I^2 R$ watts**
C) RI
D) IRA

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

- A) 2000 watts**
B) 2010 watts (Incorrect)
C) 2020 watts
D) 2030 watts

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

- A) 94.8 ohms
B) 95.8 ohms
C) 96.8 ohms
D) 97.8 ohms (Incorrect)

22. What is the voltage of the immersion heater?

$P = 500$ watts

$I = 2.27$ Amps

$V = \underline{\hspace{2cm}}$ Volts

- A) 200.3 volts (Incorrect)
B) 210.3 volts
C) 220.3 volts
D) 230.3 volts

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

- A) wb/m**
B) m/wb (Incorrect)
C) Hertz
D) Coloumb

24. Which law states about electromagnetic induction?

- A) Ohm's law (Incorrect)
B) Hooke's law
C) Lenz's law
D) Faraday's law

25. What is the formula for induced emf?

- A) $B^2 L \sin \theta$ volts (Incorrect)
B) $BL \sin \theta$ volts (Incorrect)
C) $BLV \sin \theta$ volts
D) $B^2 V \sin \theta$ volts (Incorrect)

26. What does EMF stands for?

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

27. Which is the example for statically induced emf?

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

28. Which is the example for dynamically induced Emf?

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

29. Which is the unit electrical power?

- A) Volts (Incorrect)
B) Ohms
C) Watts
D) Ampere

30. What is the current Flow in the bulb?

$P = 550$ watts

$R = 22$ Ohms

$I = \underline{\hspace{2cm}}$ Amps

- A) 2 Amps
B) 3 Amps
C) 4 Amps (Incorrect)
D) 5 Amps