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**Score: 7/30 (23.33%)**

**Code: 4610**

1. Which machine converts mechanical energy into electrical energy?

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

2. Which is the unit of current?

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

3. Which is the unit of resistance?

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

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

- A) Voltage (Incorrect)                      **B) Current**  
 C) Resistance                                      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**                                      B) Cast iron  
C) Wrought iron (Incorrect)                      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                                      B) 7 ohm (Incorrect)  
**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 (Incorrect)

- C) Resistance                                      D) Power

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 (Correct)**                      B) Lenz's law  
 C) Newton's law                                      D) Hooke's law

12. What is the resistance?

- <br>  
 $I = 11.5 \text{ Amps}$   
 <br>  
 $V = 380 \text{ Volts}$   
 <br>  
 $R = \text{_____ Ohms}$   
 A) 13 ohms                                      B) 23 ohms (Incorrect)  
**C) 33 ohms**                                      D) 43 ohms

13. What is the current?

- <br>  
 $R = 50 \text{ Ohms}$   
 <br>  
 $220 \text{ Volts}$   
 <br>  
 $I = \text{_____ Amps}$   
 A) 4.1 Amps                                      B) 4.2 Amps  
C) 4.3 Amps (Incorrect)                      **D) 4.4 Amps**

14. What is the voltage?

- <br>  
 $R = 250 \text{ Ohms}$   
 <br>  
 $I = 0.44 \text{ Amps}$   
 <br>  
 $V = \text{_____ Volts}$   
 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)  $I = V/R$**                                       D)  $I = R/V$  (Incorrect)

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

- A) 12 W**    B) 10 W  
 C) 3 W (Incorrect)                                      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 (Correct)**      D) 4000 watt sec

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

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

19. Which is equal to electric power?

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

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

- A) **2000 watts (Correct)**                  B) 2010 watts  
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 (Incorrect)  
C) **96.8 ohms**                              D) 97.8 ohms

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                              B) 210.3 volts  
C) **220.3 volts**                              D) 230.3 volts (Incorrect)

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

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

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 formual for induced emf?

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

26. What does EMF stands for?

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

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**  
C) Car    D) Motor bike (Incorrect)

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**