ITI Quiz - 30-Mar-2026 09:17 AM Q. ID: ITISKILL31078T

March 2026 **Dr. J. J. Magdum ITI college sambhajipur** Question Paper

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Score: 21/30 (70.00%) **Code: 4674**

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
C) Ohm (Correct) D) Watt

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

A) Voltage **B) Current (Correct)**
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 (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 B) 7 ohm
C) 17 ohms (Correct) 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 termperature 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?

I = 11.5 Amps

V = 380 Volts

R = _____Ohms

A) 13 ohms B) 23 ohms
C) 33 ohms (Correct) D) 43 ohms

13. What is the current?

R = 50 Ohms

220 Volts

I =_____Amps

A) 4.1 Amps B) 4.2 Amps
C) 4.3 Amps **D) 4.4 Amps (Correct)**

14. What is the voltage?

R = 250 Ohms

I = 0.44 Amps

V = ____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 (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) R²I watts
B) I²R watts (Correct)
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 (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
C) 96.8 ohms (Correct)
D) 97.8 ohms

22. What is the voltage of the immersion heater?

P = 500 watts

I = 2.27 Amps

V = _____Volts

A) 200.3 volts
B) 210.3 volts
C) 220.3 volts (Correct)
D) 230.3 volts

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
B) Hooke's law
C) Lenz's law
D) Faraday's law (Correct)

25. What is the formual for induced emf?

A) B²L sinq volts
B) BL sinq volts (Incorrect)
C) BLV sinq volts
D) B²V sinq volts

26. What does EMF stands for?

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

27. Which is the example for statically induced emf?

A) Generator
B) Motor
C) Transformer (Correct)
D) Refrigerator

28. Which is the example for dynamicallly induced Emf?

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

29. Which is the unit electrical power?

A) Volts
B) Ohms
C) Watts (Correct)
D) Ampere

30. What is the current Flow in the bulb?

P = 550 watts

R = 22 Ohms

I = _____Amps

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