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ITI Quiz - 30-Mar-2026 09:17 AM

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Attempt No.	#1	Completion Time	10:25 AM
Rank	#7	Total Questions	30

22 SCORE

30 MAX MARKS

22 CORRECT

8 INCORRECT

Answer Review

Q1 **CORRECT** Which machine converts mechanical energy into electrical energy?

A. Battery

B. Generator

C. Heater

D. Iron box

Q2 **CORRECT** Which is the unit of current?

A. Ampere

B. Volt

C. Ohm

D. Watt

Q3 **CORRECT** Which is the unit of resistance?

A. Ampere

B. Volt

C. Ohm

D. Watt

Q4 **CORRECT** What is the flow of electrons in any conductor?

A. Voltage

B. Current

C. Resistance

D. Power

Q5 **CORRECT** Which property of a substance is opposing the flow of electric current?

A. Current

B. Voltage

C. Resistance

D. EMF

Q6 **CORRECT** Which is very good conductor?

A. Copper

B. Cast iron

C. Wrought iron

D. Steel

Q7 **CORRECT** Which is mineral insulator

A. Glass

B. Quartz

C. Mica

D. Porcelain

Q8 **INCORRECT** 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

D. 1/17 ohms

Q9 **INCORRECT** What is the total resistance if two resistances of 4 ohms and 6 ohms are connected in parallel?

A. 10

B. 2.4

C. 5

D. 4

Q10 **CORRECT** Which is same in series connection of resistors in a circuit?

A. Current

B. Voltage

C. Resistance

D. Power

Q11 **CORRECT** 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

Q12 **INCORRECT** What is the resistance?

$I = 11.5$ Amps

$V = 380$ Volts

$R = \underline{\hspace{2cm}}$ Ohms

A. 13 ohms

B. 23 ohms

C. 33 ohms

D. 43 ohms

Q13 **CORRECT** What is the current?

$R = 50$ Ohms

220 Volts

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

A. 4.1 Amps

B. 4.2 Amps

C. 4.3 Amps

D. 4.4 Amps

Q14 **INCORRECT** 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

Q15 **CORRECT** Which statement is correct according to ohm's law?

A. $I = 1/V$

B. $I = R$

C. $I = V/R$

D. $I = R/V$

Q16 **CORRECT** 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

D. 1.2 W

Q17 **CORRECT** How much watt second in 1 watt hour?

A. 1000 watt sec

B. 2000 watt sec

C. 3600 watt sec

D. 4000 watt sec

Q18 **CORRECT** What is the power if an emf of one volt causes a current flow of 1 ampere?

A. 1 watt

B. 1 kilowatt

C. 1 HP

D. 1 Kilowatt hour

Q19 **CORRECT** Which is equal to electric power?

A. $R^2 I$ watts

B. $I^2 R$ watts

C. RI

D. IRA

Q20 **INCORRECT** 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

C. 2020 watts

D. 2030 watts

Q21 **CORRECT** 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

Q22 **INCORRECT** What is the voltage of the immersion heater?

$P = 500$ watts

$I = 2.27$ Amps

$V = \text{_____}$ Volts

A. 200.3 volts

B. 210.3 volts

C. 220.3 volts

D. 230.3 volts

Q23 **INCORRECT** What is the unit of intensity of magnetic field?

A. wb/m

B. m/wb

C. Hertz

D. Coloumb

Q24 **CORRECT** Which law states about electromagnetic induction?

A. Ohm's law

B. Hooke's law

C. Lenz's law

D. Faraday's law

Q25 **CORRECT** What is the formula for induced emf?

A. $B^2 L \sin \theta$ volts

B. $BL \sin \theta$ volts

C. $BLV \sin \theta$

D. $B^2 L V \sin \theta$ volts

Q26 **CORRECT** What does EMF stands for?

A. Electronic Magnetic Force

B. Electro Motive Force

C. Electro Magnetic Force

D. Electromated Force

Q27 **CORRECT** Which is the example for statically induced emf?

A. Generator

B. Motor

C. Transformer

D. Refrigerator

Q28 **CORRECT** Which is the example for dynamically induced Emf?

A. Motor

B. Generator

C. Car

D. Motor bike

Q29 **CORRECT** Which is the unit electrical power?

A. Volts

B. Ohms

C. Watts

D. Ampere

Q30 **INCORRECT** What is the current Flow in the bulb?

P = 550 watts

R = 22 Ohms

I = ____Amps

A. 2 Amps

B. 3 Amps

C. 4 Amps

D. 5 Amps