35 Lecture - PHY301

Important Mcqs

What is load voltage?

A. The voltage across a load

B. The voltage supplied to a load

C. The voltage dropped across a resistor

D. The voltage across a capacitor

Answer: A. The voltage across a load

What is load current?

A. The current flowing through a load

B. The current supplied to a load

C. The current flowing through a resistor

D. The current flowing through a capacitor

Answer: A. The current flowing through a load

What is the relationship between voltage, current, and resistance?

A. V = IR

B. I = RV

C. R = VI

D. V = I/R

Answer: A. V = IR

What is the power consumed by a load with a voltage of 10V and a current of 2A?

A. 5W

B. 10W

C. 15W

D. 20W

Answer: D. 20W (P = VI = 10V x 2A = 20W)

What is a resistive load?

A. A load that stores and releases electrical energy

B. A load that produces heat or light

C. A load that is easy to pass current through

D. A load that is difficult to pass current through

Answer: B. A load that produces heat or light

What is a reactive load?

A. A load that produces heat or light

B. A load that is easy to pass current through

C. A load that stores and releases electrical energy

D. A load that is difficult to pass current through

Answer: C. A load that stores and releases electrical energy

For a capacitive load, what is the phase difference between load voltage and current?

A. 0 degrees

B. 45 degrees

C. 90 degrees

D. 180 degrees

Answer: C. 90 degrees

For an inductive load, what is the phase difference between load voltage and current?

A. 0 degrees

B. 45 degrees

C. 90 degrees

D. 180 degrees

A**nswer: C. 90 degrees**

What is a multimeter used for?

A. Measuring voltage, current, and resistance

B. Measuring only voltage

C. Measuring only current

D. Measuring only resistance

Answer: A. Measuring voltage, current, and resistance

What is an oscilloscope used for?

A. Displaying the voltage waveform over time

B. Measuring only voltage

C. Measuring only current

D. Measuring only resistance

Answer: A. Displaying the voltage waveform over time