

Physics ICS Part 2 Chapter 16 Online MCQ's Test

Sr	Questions	Answers Choice
1	The flow of D.C current is opposed by	A. Resistor B. Induction C. Capacitor D. All of these
2	In A.C circuit of inductor which one is true	A. Voltage leads current by phase angle $\pi/2$ B. Voltage lags current by $\pi/2$ C. Current leads voltage by $\pi/2$ D. Both remain in phase
3	In RLC series circuit at resonance the phase difference between capacitor and inductor reactance is.	A. 90° B. 270° C. 0° D. 180°
4	The value of capacitive reactance is given by	A. $X_c = V I$ B. $X_c = 1/\omega C$ or $X_c = \omega L$ C. $X_c = 1/\omega C$ or $X_c = \omega L$ D. All of above
5	In A.C circuit through a capacitor which one is:	A. Current leads voltage by 90° B. Current lags behind voltage by 90° C. Both will be in phase D. None of above
6	The highest value reached by the voltage or current in one cycle is called.	A. Peak ot peak value B. Peak value C. Instantaneous value D. Root mean square value
7	Which consumes small power.	A. Inductor B. Resistor C. Motor D. All of these
8	Resistance of choke is	A. zero B. Large C. Very small D. Infinite
9	The most common source of an A.C. Voltage is.	A. Motor B. Cell C. Generator D. Thermo couple
10	An inductor may store energy in	A. Its magnetic field B. Its coil C. Its electric field D. A neighboring circuit
11	The device which allows only the continuous flow of AC through it is.	A. Inductor B. Battery C. Thermistor D. Capacitor
12	$V_{rms} =$	A. $0.7V$ B. $0.07V$ C. $0.007V$ D. $0.75V$
13	Unit of impedance is:	A. Ohm B. Ω^{-1} C. no unit D. Ωm^{-1}
14	At resonance frequency, the impedance of RLC series circuit is.	A. Maximum B. Minimum C. Zero D. Infinite

A. Decreased

15	when an inductor comes close to a metallic object, its inductance is.	B. Increased C. Becomes half D. Becomes 4 times
16	The Basic circuit element in a D.C. circuits which controls the current and voltage is	A. Resistor B. Inductor C. Capacitor D. Transistor
17	Radio frequency choke is	A. Iron cored B. Air Cored C. Air as well as iron cored D. None of these
18	The condition of resonance is:	A. $X_L = 1/2 X_c$ B. $X_L = X_c$ C. $X_c = 4X_L^2$ D. None of above
19	In LR circuit which one of the following statements is correct?	A. L and R opposes each other B. R value increases with frequency C. The inductive reactance increases with frequency D. The inductive reactance decreases with frequency
20	At resonance, the behavior of R-L-C series circuit is.	A. Resistive B. Capacitive C. Inductive D. Modulative