

## Physics ICS Part 2 Chapter 16 Online MCQ's Test

Sr	Questions	Answers Choice
1	In a pure inductive A.C. circuit the current.	A. Lags behind voltage by 90 <sup>o</sup> B. Leads the voltage by 90 <sup>o</sup> C. In phase with voltage D. Leads the voltage by 270 <sup>o</sup>
2	An A.C. voltmeter reads 220 V, its peak value will be	A. 225 V B. 240 V C. 311.12 V D. 300 V
3	In an LRC circiut, the capacitance is made one-fourth, when an resonance . Then what should be change in inductance, so that the circuit remain in resonance?	A. 4 times B. 1/4 times C. 8 times D. 2 times
4	In A.C circuit of inductor which one is true	<ul> <li>A. Voltage leads current by phase angle π/2</li> <li>B. Voltage lags current by π/2</li> <li>C. Current leads voltage by π/2</li> <li>D. Both remain in phase</li> </ul>
5	In three phase A.C supply coils are inclined at an angle of.	A. 0 <sup>o</sup> B. 90 <sup>o</sup> C. 120 <sup>o</sup> D. 80 <sup>o</sup>
6	100 micro F capacitor is connects to an AC voltage 24 V and frequency 50 Hz. The reactance of the capacitor is.	A. 30.8 Ohm B. 31.8 Ohm C. 34.8 Ohm D. 40 Ohm
7	The value of capacitive reactance is given by	A. Xc = VI B. xc= 1/wc or xc= wL C. xc= 1*wc or xc=Lw D. All of above
8	The main reason for world wide use of A.C is because:	A. It is very high power      B. It can be transmitted over long distance     C. It is cheaper to use     D. ALI of above
9	The wave form of alternating voltage is a	A. Cotangent curve B. Cosine curve C. Sine curve D. Tangent curve
10	The unit of impedance is	A. Farad B. Henry C. Tesla D. Ohm
11	Electro magnetic waves emitted from radio antenna are.	A. Stationary B. Longitudinal C. Transvers D. Both a and b
12	An in cudutor may store energy in	A. Its magnetic field B. Its coil C. Its electric field D. A neighboring circuit
13	If the frequency of A.C. supplied is doubled then the capacitive reactance becomes.	A. Half B. Two C. Four times D. One fourth
14	The expression P = VI hold only when current and voltage are.	A. In phase B. Out of phase C. At right angle to each other

		D. At angle of 120 <sup>o</sup>
15	The flow of D.C current is opposed by	A. Resistor B. Induction C. Capacitor D. All of these
16	In case of capacitor, the unit of reactance is	A. Farad B. Ohm C. Newton D. All of these
17	The most common source of an A.C. Voltage is.	A. Motor B. Cell C. Generator D. Thermo couple
18	An alternating voltage is given by 20 sin 157 t. Th efrequency of alternating voltage is:	A. 50 Hz B. 25Hz C. 100 Hz D. 75 Hz
19	The electromagnetic spectrum contains	A. Radio waves B. X-rays C. Microwaves D. All of these
20	Direct current can not flow through.	A. Inductor B. Resistor C. Transistor D. Capacitor