

## Physics ICS Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	When 10 V are applied to an A.C circuit, the current flowing in it is 100 mA. Its impedance is.	A. 100 Ohm B. 10 Ohm C. 1000 Ohm D. 1 Ohm
2	The combined effect of resistance and reactance is known as.	A. Inductance B. Conductance C. Resistance D. Impedance
3	The inductive reactance of a coil is directly proportional to.	A. Inductance B. Resistance C. Frequency of A.C. D. Both frequency of A.C. and inductance
4	The device which allows only the flow of D.C. is.	A. Capacitors B. transformer C. Inductor D. Generator
5	When an inductor comes close to a metallic object, its inductance is.	A. Decreased B. Increased C. Becomes half D. Becomes 4 times
6	An inductor of 1 henry inductance has a reactance 500 ohms, then the frequency required is approximately	A. 50 Hz B. 100 Hz C. 80 Hz D. 120 Hz
7	An inductor may store energy in	A. Its magnetic field B. Its coil C. Its electric field D. A neighboring circuit
8	The phase difference between current and voltage in an inductive circuit is.	A. zero B. $90^\circ$ C. $180^\circ$ D. $45^\circ$
9	In a pure inductive A.C. circuit the current.	A. Lags behind voltage by $90^\circ$ B. Leads the voltage by $90^\circ$ C. In phase with voltage D. Leads the voltage by $270^\circ$
10	The device which allows only the continuous flow of AC through it is.	A. Inductor B. Battery C. Thermistor D. Capacitor
11	In pure capacitor A.C. circuit, the current I and charge q are.	A. In phase B. Out of phase C. Parallel to each other D. None of above
12	If the frequency of A.C. supplied is doubled then the capacitive reactance becomes.	A. Half B. Two C. Four times D. One fourth
13	At high frequency the value of reactance of capacitor will be.	A. Small B. Zero C. Large D. Infinite
14	100 micro F capacitor is connected 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



15	The slope of q-t curve at any instant of time gives.	A. Voltage B. Current C. Charge D. Both a and b
16	SI unit of reactance is.	A. Ohm B. Mho C. Farad D. Henry
17	In the capacitive circuit of A.C. quantity when $q = 0$ the slope of q-t curve is.	A. Maximum B. Minimum C. Zero D. Negative