

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

Sr	Questions	Answers Choice
1	In RLC series circuit at resonance the phase difference between capacitor and inductor reactance is.	A. $90^\circ$ B. $270^\circ$ C. $0^\circ$ D. $180^\circ$
2	The device which allows only the continuous flow of AC through it is.	A. Inductor B. Battery C. Thermistor D. Capacitor
3	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
4	The value of capacitive reactance is given by	A. $X_c = VI$ B. $x_c = 1/\omega c$ or $x_c = \omega L$ C. $x_c = 1/\omega c$ or $x_c = L\omega$ D. All of above
5	At high frequency the value of reactance of capacitor will be.	A. Small B. Zero C. Large D. Infinite
6	$X_L$ is low for low frequency $F$ but $X_c$ is.	A. Zero B. Low C. High D. Same is H
7	Power dissipated in a pure inductor is.	A. Large B. Small C. Infinite D. Zero
8	The power factor of RL series circuit is.	A. 0 B. 1 C. Less than 1 D. More than one
9	The highest value reached by the voltage or current in one cycle is called:	A. Peak to peak value B. Peak value C. Instantaneous value D. Root mean square value
10	The peak value of alternating current is $5\sqrt{2}$ A. The mean square value of current will be:	A. 5A B. 2.5A C. $5\sqrt{2}$ A D. $5\sqrt{2}$ A
11	In purely resistive A.C circuit, instantaneous value of voltage and current:	A. Current lags behind voltage B. Current leads voltage C. Both are in Phase D. Voltage leads current by $\theta = \pi/2$
12	The natural frequency of L.C circuit is equal to	
13	SI unit of reactance is.	A. Ohm B. Mho C. Farad D. Henry
14	A resistance frequency the impedance of RLC parallel circuit is.	A. Zero B. Infinite C. Maximum D. Minimum
15	The peak value of alternating current is $5\sqrt{2}$ A. The mean square value of current will be:	A. 5A B. 2.5A C. $5\sqrt{2}$ A

		font-family: arial, sans-serif; font-size: 16px;">>√2A</b> D. 5<sup>2</sup>
16	Radio frequency choke is	A. Iron cored B. Air Cored C. Air as well as iron cored D. None of these
17	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
18	The peak to peak value of alternating voltage is	A. 2V<sub>o</sub></sub> B. V<sub>o</sub></sub> D. None of these
19	Choke consumes extremely small	A. Current B. Charge C. Power D. Potential
20	In an LRC circuit, the capacitance is made one-fourth, when at 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