

Physics FSC Part 2 Chapter 16 Online MCQ's Test

Sr	Questions	Answers Choice
1	The power factor of RL series circuit is.	A. 0 B. 1 C. Less than 1 D. More than one
2	At resonance frequency, the impedance of RLC series circuit is.	A. Maximum B. Minimum C. Zero D. Infinite
3	X_L is low for low frequency f but X_C is.	A. Zero B. Low C. High D. Same is H
4	Which consumes small power.	A. Inductor B. Resistor C. Motor D. All of these
5	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°
6	Power dissipated in a pure inductor is.	A. Large B. Small C. Infinite D. Zero
7	At resonance, the behavior of R-L-C series circuit is.	A. Resistive B. Capacitive C. Inductive D. Modulative
8	The phase angle of a series RLC circuit at resonant frequency is	A. $1/2$ B. σ C. Zero D. $\sigma/4$
9	The unit of impedance is.	A. Henry B. Hertz C. Ampere D. Ohm
10	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
11	The combined effect of resistance and reactance is known as.	A. Inductance B. Conductance C. Resistance D. Impedance
12	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
13	The device which allows only the flow of D.C. is.	A. Capacitors B. transformer C. Inductor D. Generator
14	When an inductor comes close to a metallic object, its inductance is.	A. Decreased B. Increased C. Becomes half D. Becomes 4 times
15	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. 100 Hz

D. 120 Hz

16 An inductor may store energy in

- A. Its magnetic field
- B. Its coil
- C. Its electric field
- D. A neighboring circuit

17 The phase difference between current and voltage in an inductive circuit is.

- A. zero
- B. 90°
- C. 180°
- D. 45°