

Physics ICS Part 2 Chapter 16 Online MCQ's Test

Sr	Questions	Answers Choice
1	In AC system we generate sine wave form because:	<p>A. It can be easily draw</p> <p>B. It produces least disturbance in electrical circuits</p> <p>C. It is nature standard</p> <p>D. Other waves cannot be produced easily</p>
2	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?	<p>A. 4 times</p> <p>B. 1/4 times</p> <p>C. 8 times</p> <p>D. 2 times</p>
3	In choke coil the reactance X_L and resistance R are:	<p>A. $X_L = R$</p> <p>B. $X_L \ll R$</p> <p>C. $X_L \gg R$</p> <p>D. $X_L = R$</p>
4	The peak value of alternating current is $5\sqrt{2}$ A. The mean square value of current will be:	<p>A. 5A</p> <p>B. 2.5A</p> <p>C. $5\sqrt{2}$ A</p> <p>D. $5\sqrt{2}$ A</p>
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6	A capacitor is perfectly insulator for:	<p>A. Direct current</p> <p>B. Alternating current</p> <p>C. Direct as well as alternating current</p> <p>D. None of these</p>
7	The AC system is preferred to DC system because:	<p>A. AC voltage can be easily changed in magnitude</p> <p>B. DC motor angular velocity is affected badly</p> <p>C. High voltage AC transmission is less efficient</p> <p>D. Domestic appliance require AC voltage for their operation</p>
8	In Series resonance circuit the impedance of circuit at resonance frequency, is	<p>A. Maximum</p> <p>B. Minimum</p> <p>C. It is unequal to R</p> <p>D. None of above</p>
9	The resonance frequency is given by:	<p>A. $f_r = \frac{1}{2\pi\sqrt{LC}}$</p> <p>B. $f_r = \frac{1}{2\pi LC}$</p> <p>C. $f_r = \frac{1}{2\pi\sqrt{LC}}$</p> <p>D. $f_r = \frac{1}{2\pi C\sqrt{L}}$</p>
10	The condition of resonance is:	<p>A. $X_L = \frac{1}{2} X_C$</p> <p>B. $X_L = X_C$</p> <p>C. $X_L = X_C$</p> <p>D. None of above</p>
11	Power dissipation in A.C circuit is expressed as:	<p>A. $P = I_{rms} \times V_{rms} \sin\theta$</p> <p>B. $I_{rms} \times V_{rms} \cos\theta$</p> <p>C. $I_{rms} \times V_{rms} \cos\theta$</p> <p>D. $I_{rms} \times V_{rms} \sin\theta$</p>
12	Power dissipation in a pure inductive or in a pure capacitance circuit is:	<p>A. 10^6</p> <p>B. 0</p> <p>C. 10^6</p> <p>D. Maximum</p>

13	Unit of impedance is:	A. Ohm B. Ohm^{-1} C. no unit D. Ohm m^{-1}
14	Impedance is denoted by:	A. A B. Z C. P D. Q
15	The combined effect of resistance and reactance in circuit is called:	A. Impedance B. Inductance C. Capacitance D. None of above
16	$X_L =$	A. $2\pi fL$ B. $1/2\pi fL$ C. $2\pi fL$ D. $fL/2\pi$
17	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