

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

Sr	Questions	Answers Choice
1	The expression $P = VI$ hold only when current and voltage are.	<p>A. In phase            B. Out of phase            C. At right angle to each other            D. At angle of <math>120^\circ</math></p>
2	The flow of D.C current is opposed by	<p>A. Resistor            B. Induction            C. Capacitor            D. All of these</p>
3	Direct current can not flow through.	<p>A. Inductor            B. Resistor            C. Transistor            D. Capacitor</p>
4	In A.C circuit of inductor which one is true	<p>A. Voltage leads current by phase angle <math>\pi/2</math>            B. Voltage lags current by <math>\pi/2</math>            C. Current leads voltage by <math>\pi/2</math>            D. Both remain in phase</p>
5	Power dissipation in A.C circuit is expressed as:	<p>A. <math>P = I_{\text{rms}} \times V_{\text{rms}} \sin \theta</math>            B. <math>I V \cos \theta</math>            C. <math>I_{\text{rms}} \times V_{\text{rms}} \cos \theta</math>            D. <math>I_{\text{rms}} \times V_{\text{rms}} \sin 2\theta</math></p>
6	In chopke coil the resistance $X_L$ an resistance R are:	<p>A. <math>X_L = R</math>            B. <math>X_L &lt; R</math>            C. <math>X_L &gt; R</math>            D. <math>X_L = \infty</math></p>
7	An inductor of 1 henry inductance has a reactance 500 ohms, then the frequency required is approximately	<p>A. 50 Hz            B. 100 Hz            C. 80 Hz            D. 120 Hz</p>
8	The condition of resonance is:	<p>A. <math>X_L = 1/2 X_C</math>            B. <math>X_L = X_C</math>            C. <math>X_C = 4 X_L^2</math>            D. None of above</p>
9	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?	<p>A. 4 times            B. 1/4 times            C. 8 times            D. 2 times</p>
10	The effective value of any sinusoidal alternating current or voltage is	<p>D. None of the above</p>
11	The highest value reached by the voltage or current in one cycle is called.	<p>A. Peak of peak value            B. Peak value            C. Instantaneous value            D. Root mean square value</p>
12	Impedance is denoted by:	<p>A. A            B. Z            C. P            D. Q</p>
13	The peak value of alternating current is $5\sqrt{2}$ A. The mean square value of current will be:	<p>A. 5A            B. 2.5A            C. <math>5\sqrt{2}</math> A            D. <math>5^2</math></p>
14	The unit of impedance is	<p>A. Farad            B. Henry            C. Tesla            D. Ohm</p>

15	At high frequency the value of reactance of capacitor will be.	<p>A. Small</p> <p>B. Zero</p> <p>C. Large</p> <p>D. Infinite</p>
16	Unit of impedance is:	<p>A. Ohm</p> <p>B. <math>\text{Ohm}^{-1}</math></p> <p>C. no unit</p> <p>D. <math>\text{Ohm m}^{-1}</math></p>
17	In purely resistive A.C circuit, instantaneous value of voltage and current:	<p>A. Current lags behind voltage</p> <p>B. Current leads voltage by <math>\pi/2</math></p> <p>C. Both are in Phase</p> <p>D. Voltage leads current by <math>\theta = \pi/2</math></p>
18	The main use of A.C is	<p>A. Minimum line losses</p> <p>B. Long distance transmission</p> <p>C. Stepping up to required voltage only</p> <p>D. Steeping down to required voltage only</p>
19	Radio frequency choke is	<p>A. Iron cored</p> <p>B. Air Cored</p> <p>C. Air as well as iron cored</p> <p>D. None of these</p>
20	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>