

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

Sr	Questions	Answers Choice
1	Which consumes small power.	A. Inductor B. Resistor C. Motor D. All of these
2	When 10 V are applied to an A.C circuit, the current flowing in it is 100 mA. It impedance is.	A. 100 Ohm B. 10 Ohm C. 1000 Ohm D. 1 Ohm
3	Phase difference between V and I of an A.C through resistor is.	A. Zero Degree B. 90 <sup>o</sup> C. 80 <sup>o</sup> D. 120 <sup>o</sup>
4	In pure capacitor A.C. circuit, the current I and charge q are.	<ul><li>A. In phase</li><li>B. Out of phase</li><li>C. Parallel to each other</li><li>D. None of above</li></ul>
5	During each cycle A.C. voltage reaches a peak value.	A. Once B. Twice C. Thrice D. Four time
6	The power factor of RL series circuit is.	A. 0 B. 1 C. Less then 1 D. More than one
7	The value of capacitive reactance is given by	A. Xc = VI B. xc= 1/wc or xc= wL C. xc= 1*wc or xc=Lw D. All of above
8	The A.M. transmission frequencies range from	A. 540 KHz to 1000 KHz B. 540 Khz to 1600 KHz C. 520 KHz TO 1600 KHz D. 520 KHz TO 1400 KHz
9	If $I_0$ is the peak value of current, then its root mean square value is given by	B. 2   <sub>o</sub> C.   <sub>o</sub> D. 0.7   <sub>o</sub>
10	The peak value of A.C source is 20 A, then its rms value will be.	A. 14.1 A B. 10 A C. 20 A D. 28.2 A
11	A capacitor is perfectly insulator for:	A. Direct current     B. Alternating current     C. Direct as well as alternating current     D. None of these
12	The slope of q-t curve at any instant of time gives.	A. Voltage B. Current C. Charge D. Botha a and b
13	In Pakistan the frequency of A.C. supply is.	A. 50 Hz B. 60 Hz C. 45 Hz D. 70 Hz
14	If $V_{\text{rms}}$ be the root mean square value of emf then its peak to peak value is given by	
15	In RLC series circuit at resonance the phase difference between capacitor and inductor reactance is.	A. 90 <sup>o</sup> B. 270 <sup>o</sup> C. 0 <sup>o</sup> D. 180 <sup>o</sup>
16	The natural frequency of L.C circuit is equal to	
		A. Stationary

17	Electro magnetic waves emitted from radio antenna are.	B. Longitudinal C. Transvers D. Both a and b
18	X <sub>1</sub> is low for low frequency Fy but Xc is.	A. Zero B. Low C. High D. Same is H
19	Xc =	<ul><li>A. 1/2πfc</li><li>B. 2πfc</li><li>C. 2π/fc</li><li>D. fc/2π</li></ul>
20	In A.C circuit through a capacitor which one is:	A. Current leads voltage by 90 <sup> </sup> B. Current lags behind voltage by 90 <sup> </sup> C. Both will be in phase D. None of above