

Physics FSC Part 2 Chapter 16 Online MCQ's Test

Sr	Questions	Answers Choice
1	$X_c =$	A. $\frac{1}{2\pi fC}$ B. $2\pi fC$ C. $2\pi/fC$ D. $fC/2\pi$
2	The internal resistance of a capacitor is called:	A. Impedance B. Resistance C. Reactance D. Conductance
3	In A.C circuit through a capacitor which one is:	A. Current leads voltage by 90° B. Current lags behind voltage by 90° C. Both will be in phase D. None of above
4	In purely resistive A.C circuit, instantaneous value of voltage and current:	A. Current lags behind voltage B. Current leads voltage by $\pi/2$ C. Both are in Phase D. Voltage leads current by $\pi/2$
5	$V_{rms} =$	A. $0.7V$ B. $0.07V$ C. $0.007V$ D. $0.75V$
6	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
7	The main reason for world wide use of A.C is because:	A. It is very high power B. It can be transmitted over long distance C. It is cheaper to use D. All of above
8	The electromagnetic spectrum contains	A. Radio waves B. X-rays C. Microwaves D. All of these
9	In frequency modulation, the amplitude of carrier waves is	A. Increases B. Remains constant C. Decreases D. None of these
10	Radio frequency choke is	A. Iron cored B. Air Cored C. Air as well as iron cored D. None of these
11	At high frequency, the current through a capacitor is	A. Small B. Infinity C. Zero D. Large
12	The effective value of any sinusoidal alternating current or voltage is	D. None of the above
13	The reactance of inductor depends upon	A. L D. All of the above
14	The natural frequency of L.C circuit is equal to	
15	The unit of impedance is	A. Farad B. Henry C. Tesla D. Ohm
16	In case of capacitor, the unit of reactance is	A. Farad B. Ohm C. Newton D. All of these

D. All of these

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The reactance is the ratio of

A. $V_{\text{rms}}/I_{\text{rms}}$

B. $V_{\text{rms}} \times I_{\text{rms}}$

C. $I_{\text{rms}}/V_{\text{rms}}$

D. $V_{\text{max}} \times V_{\text{rms}}$

V_{rms}