

Physics ICS Part 2 Chapter 16 Online MCQ's Test

Sr	Questions	Answers Choice
1	$X_C =$	A. $1/2\pi f C$ B. $2\pi f C$ C. $2\pi/f C$ D. $f C/2\pi$
2	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
3	If the frequency of A.C. supplied is doubled then the capacitive reactance becomes.	A. Half B. Two C. Four times D. One fourth
4	The device which allows only the continuous flow of AC through it is.	A. Inductor B. Battery C. Thermistor D. Capacitor
5	Average value of current and voltage over a complete cycle is.	A. Positive B. Negative C. Zero D. Infinite
6	The effective value of any sinusoidal alternating current or voltage is	D. None of the above
7	The condition of resonance is:	A. $XL = 1/2 X_C$ B. $X_L _L = X_C _C$ C. $X_C _C = 4 _x 2 _x$ D. None of above
8	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
9	The device which allows only the flow of D.C. is.	A. Capacitors B. Transformer C. Inductor D. Generator
10	The expression $P = VI$ holds only when current and voltage are.	A. In phase B. Out of phase C. At right angle to each other D. At an angle of 120°
11	The peak to peak value of alternating voltage is	A. $2V_{\text{peak}}$ B. V_{peak} C. None of these
12	The AC system is preferred to DC system because:	A. AC voltage can be easily changed in magnitude B. DC motor angular velocity is affected badly C. High voltage AC transmission is less efficient D. Domestic appliances require AC voltage for their operation
13	Resistance of choke is	A. zero B. Large C. Very small D. Infinite
14	In RLC series circuit at resonance the phase difference between capacitor and inductor reactance is.	A. 90° B. 270° C. 0° D. 180°
15	In frequency modulation, the amplitude of carrier waves is	A. Increases B. Remains constant C. Decreases D. None of these

16 The unit of impedance is
A. Farad
B. Henry
C. Tesla
D. Ohm

17 The unit of impedance is.
A. Henry
B. Hertz
C. Ampere
D. Ohm

18 The basic circuit element in A.C. circuit which controls current.
A. Resistor only
B. Capacitor only
C. Inductor only
D. All of these

19 Direct current can not flow through.
A. Inductor
B. Resistor
C. Transistor
D. Capacitor

20 The resonance frequency is given by:
A. $f_r = 2\pi\sqrt{LC}$
B. $f_r = 1/2\pi\sqrt{LC}$
C. $f_r = 1/2\pi\sqrt{LC}$
D. $f_1 = 1/2\pi\sqrt{LC}$
