

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

Sr	Questions	Answers Choice
1	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
2	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
3	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
4	In AC system we generate sine wave form because:	A. It can be easily drawn B. It produces least disturbance in electrical circuits C. It is nature standard D. Other waves cannot be produced easily
5	In case of capacitor, the unit of reactance is	A. Farad B. Ohm C. Newton D. All of these
6	High frequency radio wave is called as	A. Fluctuate B. Carrier wave C. Matter wave D. Mechanical wave
7	SI unit of reactance is.	A. Ohm B. Mho C. Farad D. Henry
8	Radio frequency choke is	A. Iron cored B. Air Cored C. Air as well as iron cored D. None of these
9	The wave form of alternating voltage is a	A. Cotangent curve B. Cosine curve C. Sine curve D. Tangent curve
10	An electromagnetic wave goes from air to glass which of the following does not change?	A. Radio waves B. X-rays C. Ultra violet radiation D. Ultra sound waves
11	The value of capacitive reactance is given by	A. $X_C = VI$ B. $X_C = 1/\omega C$ or $X_C = \omega L$ C. $X_C = 1/\omega C$ or $X_C = L\omega$ D. All of above
12	In three phase A.C. generator the phase difference between each pair of coil is.	A. $45^\circ$ B. $90^\circ$ C. $120^\circ$ D. $60^\circ$
13	The sum of positive and negative peak value called.	A. R.M.S. value B. P-P value C. Peak value D. Average value
14	The peak value of alternating current is $5\sqrt{2}$ A. The mean square value of current will be:	A. 5A B. 2.5A C. $5\sqrt{2}$ A D. $5/2$ A

D.  $\frac{1}{2\pi fc}$

15  $X_c =$

- A.  $\frac{1}{2\pi fc}$
- B.  $2\pi fc$
- C.  $2\pi/fc$
- D.  $fc/2\pi$

16 A resistance frequency the impedance of RLC parallel circuit is.

- A. Zero
- B. Infinite
- C. Maximum
- D. Minimum

17 The power factor of RL series circuit is.

- A. 0
- B. 1
- C. Less than 1
- D. More than one

18 An inductor of 1 henry inductance has a reactance 500 ohms, then the frequency required is approximately

- A. 50 Hz
- B. 100 Hz
- C. 80 Hz
- D. 120 Hz

19 The combined effect of resistance and reactance in circuit is called:

- A. Impedance
- B. Inductance
- C. Capacitance
- D. None of above

20 A capacitor is perfectly insulator for:

- A. Direct current
- B. Alternating current
- C. Direct as well as alternating current
- D. None of these