

Physics ICS Part 2 Chapter 16 Online MCQ's Test

Sr	Questions	Answers Choice
1	The circuit which compares the two voltages is.	A. LDR B. Sensor C. Comparator D. Logic gate
2	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
3	The phase difference between the current and voltage at resonance is:	A. 0 B. π C. $\frac{\pi}{2}$ D. $\frac{\pi}{4}$
4	For electromagnetic waves, Maxwell generalized	A. Gauss law for magnetism B. Gauss law for electricity C. Faradays law D. Amperes law
5	In LR circuit which one of the following statements is correct?	A. L and R opposes each other B. R value increases with frequency C. The inductive reactance increases with frequency D. The inductive reactance decreases with frequency
6	An A.C. voltmeter reads 220 V, its peak value will be	A. 225 V B. 240 V C. 311.12 V D. 300 V
7	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
8	Unit of impedance is:	A. Ohm B. Ω^{-1} C. no unit D. Ω^{-1}
9	The phase difference between current and voltage in an inductive circuit is.	A. zero B. 90° C. 180° D. 45°
10	The main use of A.C is	A. Minimum line losses B. Long distance transmission C. Stepping up to required voltage only D. Stepping down to required voltage only
11	Power dissipated in a pure inductor is.	A. Large B. Small C. Infinite D. Zero
12	Main reason for world wide use of A.C. is	A. It is cheaper B. Transmitted C. Both a and b D. Reaches in short time
13	The basic circuit element in A.C. circuit which controls current.	A. Resistor only B. Capacitor only C. Inductor only D. All of these

14	In three phase voltage across any two lines is about.	A. 220 V B. 230 V C. 400 V D. 430 V
15	If I_0 is the peak value of current, then its root mean square value is given by	B. $2 I_0$ C. I_0 D. $0.7 I_0$
16	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
17	The wave form of alternating voltage is a	A. Cotangent curve B. Cosine curve C. Sine curve D. Tangent curve
18	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
19	Electron vibrating 94,000 times each second will produce radio waves of frequency.	A. 94 Hz B. 940 HZ C. 94 Hz D. 490 Hz
20	The flow of D.C current is opposed by	A. Resistor B. Induction C. Capacitor D. All of these