

Physics FSC Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	The circuit in which current and voltage are in phase, the power factor is:	A. Zero B. 1 C. -1 D. 2
2	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
3	For electromagnetic waves, Maxwell generalized	A. Gauss law for magnetism B. Gauss law for electricity C. Faraday's law D. Ampere's law
4	An alternating quantity (voltage or current) is completely known if we know its:	A. Maximum B. Frequency and phase C. Effective value D. Both (a) & (b)
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 alternating voltage is given by $20 \sin 157 t$. The frequency of alternating voltage is:	A. 50 Hz B. 25 Hz C. 100 Hz D. 75 Hz
7	The phase difference between the current and voltage at resonance is:	A. 0 B. π C. $\frac{\pi}{2}$ D. $\frac{\pi}{4}$
8	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
9	In an LRC circuit, the capacitance is made one-fourth, when at resonance. Then what should be change in inductance, so that the circuit remain in resonance?	A. 4 times B. 1/4 times C. 8 times D. 2 times
10	In choke coil the reactance X_L and resistance R are:	A. $X_L = R$ B. $X_L < R$ C. $X_L > R$ D. $X_L = \infty$
11	The peak value of alternating current is $5\sqrt{2}$ A. The mean square value of current will be:	A. 5 A B. 2.5 A C. $5\sqrt{2}$ A D. $5\sqrt{2}$ A
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13	A capacitor is perfectly insulator for:	A. Direct current B. Alternating current C. Direct as well as alternating current D. None of these
14	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 appliance require AC voltage for their operation
15	Eddy current is produced when:	A. A metal is light in varying magnetic field B. A metal is kept in steady magnetic field C. A circular coil is placed in a steady magnetic field D. A current is passed through a circular coil
16	Step up transfer has a transformation ratio of 3:2. What is the voltage in secondary , If voltage in primary is 30 V?	A. 45 V B. 15 V C. 90 V D. 300 V
17	Which of the following quantities remain constant in step up transformer?	A. Current B. Voltage C. Power D. Heat