

Physics ICS Part 2 Online MCQ's Test

Sr	Questions	Answers Choice
1	In chopke coil the resistance X_L an resistance R are:	A. $X_L = R$ B. $X_L < R$ C. $X_L > R$ D. $X_L = \infty$
2	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. $5\sqrt{2}$ A
3	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. $5\sqrt{2}$ A
4	A capacitor is perfectly insulator for:	A. Direct current B. Alternating current C. Direct as well as alternating current D. None of these
5	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
6	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
7	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
8	Which of the following quantities remain constant in step up transformer?	A. Current B. Voltage C. Power D. Heat
9	In a coil current change from 2 to 4 A in .05 s . If the average induced emf is 8 V then coefficient of self-inductance is:	A. 0.2 henry B. 0.1 henry C. 0.8 henry D. 0.04 henry
10	The induced emf in a coil is proportional to:	A. Magnetic flux through the coil B. Rate of change of Magnetic flux through the coil C. Area of the coil D. Product of magnetic flux flux and area of the coil
11	What is the co-efficient of mutual inductance, when the magnetic flux changes by 2×10^{-2} Wb, and change in current is 0.01 A?	A. 2 H B. 3 H C. $1/2$ H D. Zero

A. Antoclockwise
 B. Clockwise
 C. First Clockwise and then

12	The north pole of a magnet is brought near a metallic ring. The direction of induced current in the ring will be:	C. First Clockwise and then Antoclockwise D. First anticlockwise and then Clockwise
13	The device in which induced emf is statically induced emf is:	A. Transformers B. AC generator C. Elevator D. Dynamo
14	For inducing emf in a coil the basic requirement is that:	A. Flux should link the coil B. Change in flux should link the coil C. Coil should form a closed loop D. Both (b) and (c) are true
15	The unit of permeability of free space is:	A. T.m/A B. $\text{T.m}^2/\text{A}$ C. $\text{T.m}^2/\text{A}^2$ D. None of these
16	Ampere's law is applicable to:	A. Circular path B. Rectangular path C. To any closed path D. None of these
17	The force on a charge particle moving parallel to magnetic field is:	A. Maximum B. Minimum C. Zero D. None of these