

Physics ICS Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	Which of the following quantities remain constant in step up transformer?	A. Current B. Voltage C. Power D. Heat
2	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
3	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
4	What is the co-efficient of mutual inductance, when the magnetic flux changes by 2 x 10^{-2} Wb, and change in current is 0.01 A?	A. 2 H B. 3 H C. 1/2 H D. Zero
5	The north pole of a magnet is brought near a metallic ring. The direction of induced current in the ring will be:	A. Antoclockwise B. Clockwise C. First Clockwise and then Antoclockwise D. First anticlockwise and then Clockwise
6	The device in which induced emf is statically induced emf is:	A. Transforms B. AC generator C. Alevator D. Dynamo
7	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
8	The magnitude of back emf:	A. Increases with sped of motor B. Decreases with speed of motor C. Remains same D. None of above
9	Commutator was invented by:	A. William bills B. William Gates C. William tells D. William Sturgeon
10	DC generator by william Sturgeon in:	A. 1894 B. 1961 C. 1834 D. 1961
11	A current generator device converts:	A. Mechanical energy into chemical energy B. Chemical energy into electrical energy C. Mechanical energy into electrical energy D. Both b and c
12	Energy density of an inductor is:	A. UM=1/2µ _° /B ² B. Um = 2µ _° /B C. UM = 1/2B ² /µ _° D. Um = 2B ² /µ _°
13	Energy stored in an inductor is:	A. 1/2L ² I B. 1/2L ² /I C. _{1/2L} ² D. 1/2LI

14	In self induction A coil is connected in with battery and a rheostat.	A. Parallel B. Series C. Both A and B D. None of above
15	The Si unit of Mutual inductance is:	A. VA ⁻¹ S ⁻¹ B. VAS ⁻¹ C. VSA ⁻¹ D. ASV ⁻¹
16	If force in the direction of velocity of conductor, then induced current is directed,	A. Anti clockwise B. Clock wise C. At equilibrium D. None of above
17	Electromagnetic induction is exactly according to law of:	A. Momentum B. Charge C. Energy D. Mass