

## Physics FSC Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	Self induction does not depend on	A. Number of turns of the coil B. Area of cross section of the core C. Nature of material of the core D. Current through inductor
2	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
3	The motional emf depends upon the	A. Length of conductor B. Speed of conductor C. Strength of magnet D. All of these
4	The winding of the electromagnet in motor are usually called.	A. Magnetic coils B. Field coils C. Electric coils D. electric o electric coils
5	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
6	A step up transformer is used 120 V line to provide 240 V. If primary coil has 100 turns the number of turns in secondary is.	A. 50 B. 100 C. 150 D. 200
7	In A.C. inductor behaves as	A. Capacitor B. Resistor C. Commutator D. Transistor
8	Electric current produces magnetic field, was suggested by.	A. Faraday B. Oersted C. Henry D. Lenz
9	SI unit of henry which is.	A. VSA-1 B. VS-1 A C. VS-1A-1 D. VSA
10	Eddy current is one cause energy loss in	A. A.C. generator B. Transformer C. D.C. motor D. D.C. generator
11	the core of transformer is laminated so reduce.	A. Magnetic loss B. Hysteresis loss C. Eddy current loss D. Electric loss
12	If magnetic field is doubled then magnetic energy density becomes.	A. Four times B. Two times C. Three times D. Six times
13	A simple device that prevents the direction of current from changing is called.	A. Commutator B. Rotor C. Armature D. Detector
14	1 Henry =	A. VSA <sup>-1</sup> B. VS <sup>-1</sup> A <sup>-1</sup> C. V <sup>-1</sup> SA D. VSA <sup>-2</sup>

15	What is the co-efficient of mutual inductance, when the magnetic flux changes by $2 \times 10^{-2}$ Wb, and change in current is 0.01 A?	A. 2 H B. 3 H C. 1/2 H D. Zero
16	Self inductance of a long solenoid is given by	D. None of the above
17	If the coil is wound on iron core, the flux through it.	A. Decreases B. Becomes zero C. Increases D. Remains constant
18	Which of the following converts electrical energy into mechanical energy.	A. Transformer B. A.C. generator C. D.C. generator D. D.C. motor
19	If the north pole of a magnet moves away from a metallic ring	A. Clockwise B. Anticlockwise C. First clockwise and then anticlockwise D. None of above
20	The induction can be increased by winding the wire around a core made of.	A. Copper B. Silicon C. Iron D. Aluminum