

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

Sr	Questions	Answers Choice
1	The device in which induced emf is statically induced emf is:	A. Transforms B. AC generator C. Alevator D. Dynamo
2	Lenz's law presented in	A. 1834 B. 1934 C. 1826 D. 1836
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	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>
5	If D.C. input for step up transformer, the output is	A. Zero B. High C. Low D. May be high or low
6	The emf induced by the motion of a conductor across a magnetic field is called:	A. Motional emf B. Rotational emf C. Induced emf D. All of above
7	The illustration of the phenomenon of mutual induction is in the device of	A. Transformer B. Inductor C. A.C. Generator D. Ammeter
8	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
9	The only difference between the construction of D.C and A.C is.	A. Carbon burshes B. Coil C. Commutator D. Magnetic field
10	Energy density in an inductor is.	A. Directly proportional to magnetic field B. Directly proportional to square of magnetic field C. Inversely proportional to magnetic field D. Inversely proportional to square of magnetic field
11	The mutual inductance of the coils depends upon.	A. Stiffness of the coils B. Density of coils C. Material of coils D. Geometry of the coils
12	If 10 A current passes through 100 mH inductor, then energy stored is.	A. 100 J B. 5 J C. 20 J D. Zero
13	Energy stored in an inductor is:	A. 1/2L <sup>2</sup> I B. 1/2L <sup>2</sup> /I C. <sub>1/2L </sub> <sup>2</sup> D. 1/2LI
14	The north pole of a magnet is brought near a metallic ring. The direction of induced current	A. Antoclockwise B. Clockwise C. First Clockwise and then

	in the ring will be:	Antoclockwise D. First anticlockwise and then Clockwise
15	Efficiency of transformer does not affected by	A. Input voltage B. Core of transformer C. Insulation between sheet D. Resistance of coils
16	Commutator was invented in	A. 1834 B. 1820 C. 1840 D. 1835
17	A step up transformer is used 120 V line to provide 240 V. If primary coil has 100 turns the number of turns is secondary is.	A. 50 B. 100 C. 150 D. 200
18	split rings are used in	A. A.C. generator B. A.C. motor C. Transformer D. D.C. motor
19	The mutual inductance between two coils depends upon their	A. Size B. Core material C. Size, core material and separation D. Separation
20	A.C is converted into D.C by	A. Dynamo B. Rectifier C. Motor D. Transformer