Physics FSC Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	The jerks in D.C. motor are created by the use of.	A. Armature B. Commutators C. Split rings D. Source of emf
2	The Lenz's law fulfils.	A. Law of conservation of energy B. Law of conservation of charge C. Law of conservation of momentum D. Kirchhoff's law
3	In A.C. generator , when plane of coil is perpendicular to magnetic field, then output of generator is.	A. NwAB B. 2pi f C. Maximum D. Zero
4	Energy stored in an inductor is:	A. 1/2L²I B. 1/2L²/I C. _{1/2LI}² D. 1/2LI
5	The self induction emf is some times called.	A. Motional emf B. Constant emf C. Back emf D. Variable emf
6	Electromagnetic induction obeys law of conservation	A. Charge B. Energy C. Momentum D. Mass
7	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
8	When the back emf is zero, its draws.	A. Zero current B. Minimum current C. Maximum current D. Steady current
9	If speed of rotation of a generator is doubled the output voltage will be.	A. Remain same B. Double C. Four time D. One half
10	When a conductor moves across a magnetic field an emf is set up this emf is called.	A. Variable emf B. Constant emf C. Back emf D. Induced emf
11	A metal rod of 1 m is moving at a speed of 1 ms-1 in a direction making an angle 30 ^{o} with 0.5 T magnetic field . The emf produced is.	A. 0.25 N B. 2.5 N C. 0.25 V D. 2.5 V
12	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
13	When a coil is moved in a uniform magnetic field, an induced emf is produced due of change in	A. Flux density B. Electric flux C. Magnetic flux D. Magnetic field strength
14	In D.C. generator, split rings act as.	A. Capacitor B. Commutator C. Resistor D. Inductor

15	EMF is induced due to change in	A. Charge B. Current C. Magnetic flux D. Electric field
16	When motor is just started, back emf is almost.	A. Maximum B. Zero C. Minimum D. Infinite
17	The motional emf depends upon the	A. Length of conductor B. Speed of conductor C. Strength of magnet D. All of these
18	The illustration of the phenomenon of mutual induction is in the device of	A. Transformer B. Inductor C. A.C. Generator D. Ammeter
19	Efficiency of transformer does not affected by	A. Input voltage B. Core of transformer C. Insulation between sheet D. Resistance of coils
20	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