

Physics FSC Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	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
2	Question Image	
3	When a motor is over loaded then the magnitude of back emf.	A. Increases B. Decreases C. Remain constant D. Zero
4	The mutual inductance between two coils depends upon their	A. Size B. Core material C. Size, core material and separation D. Separation
5	Output of D.C. motor is	A. A.C. energy B. Mechanical energy C. Chemical energy D. D.C. energy
6	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
7	When back emf in motor is zero, it draws.	A. Zero current B. Minimum current C. Maximum current D. Steady current
8	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
9	In A.C. inductor behaves as	A. Capacitor B. Resistor C. Commutator D. Transistor
10	The motional emf depends upon the	A. Length of conductor B. Speed of conductor C. Strength of magnet D. All of these
11	A simple device that prevents the direction of current from changing is called.	A. Commutator B. Rotor C. Armature D. Detector
12	Step up transformer is used.	A. Step up D.C. voltage B. Step up A.C. voltage C. Step up both A.C and D.C. D. Step up A.C. current
13	If we make magnetic field stronger the value of induced current is.	A. Decreased B. Increased C. Vanishes D. Remain constant
14	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
15	The magnitude of motional emf is given by	
		A. 0.25 N

16	A metal rod of 1 m is moving at a speed of 1 ms-1 in a direction making an angle 30 $^{\rm o}$ with 0.5 T magnetic field . The emf produced is.	B. 2.5 N C. 0.25 V D. 2.5 V
17	The Si unit of Mutual inductance is:	A. VA ⁻¹ S ⁻¹ B. VAS ⁻¹ C. VSA ⁻¹ D. ASV ⁻¹
18	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
19	Electromagnetic induction is exactly according to law of:	A. Momentum B. Charge C. Energy D. Mass
20	Commentator was invented by	A. Henry B. Ousted C. Maxwell D. William sturgeon