

Physics FSC Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	Unit of self inductance is	A. Weber B. Tesla C. Henry D. Farad
2	The unit of induced emf is	A. Ampere B. Volt C. Joule/coulomb D. Both (b) and (c)
3	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
4	If 10 A current passes through 100 mH inductor, then energy stored is.	A. 100 J B. 5 J C. 20 J D. Zero
5	The winding of the electromagnet in motor are usually called.	A. Magnetic coils B. Field coils C. Electric coils D. electric o electric coils
6	Electromagnetic induction obeys law of conservation	A. Charge B. Energy C. Momentum D. Mass
7	The direction of induced current is always so as to oppose the change which causes the current is:	A. Faraday's law B. Lenz's law C. Ohm's law D. Kirchoff's 1st rule
8	The rod of unit length is moving at 30 o through a magnetic field of 1 T. If the velocity of rod is 1 m/s, then induced emf in the rod will be given by	A. 1 V B. 0.25 V C. 0.5 V D. 0.6 V
9	A 50 mH coil carries a current of 2.0 a , then energy stored in tis magnetic field is.	A. 0.1 J B. 10 J C. 100 J D. 1000 J
10	Commutator was invented by:	A. William bills B. William Gates C. William tells D. William Sturgeon
11	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
12	$B^2/2\mu$ is the expression of.	A. Lenz's law B. Magnetic energy C. Magnetic energy density D. Back emf
13	Which of the following quantities remain constant in step up transformer?	A. Current B. Voltage C. Power D. Heat
14	The magnitude of motional emf is given by	
15	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
16	SI unit of hennery which is.	A. VSA-1 B. VS-1 A C. VS-1A-1

		D. VSA
17	The motional emf is give by	A. qvB B. IBL C. eBL D. vBL
18	Which one is not present in A.C. generator.	A. Armature B. Magnet C. Slip rings D. Commutator
19	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
20	Lenz's law deals with	A. Magnitude of emf B. Direction emf C. Direction of induced current D. Resistance