

Physics FSC Part 2 Chapter 15 Online MCQ's Test

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Sr	Questions	Answers Choice
1	When back emf in motor is zero, it draws.	A. Zero current B. Minimum current C. Maximum current D. Steady current
2	Lenz's law was given by Heinrich lenz in:	A. 1894 B. 1904 C. 1854 D. 1834
3	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. Kirchhoff' s1ast rule
4	Question Image	
5	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.	A. 0.25 N B. 2.5 N C. 0.25 V D. 2.5 V
6	The movement of conductor in magnetic field produces electrical current was discovered in:	A. 1931 B. 1731 C. 1842 D. 1831
7	Unit of self inductance is	A. Weber B. Tesla C. Henry D. Farad
8	DC generator by william Sturgeon in:	A. 1894 B. 1961 C. 1834 D. 1961
9	The self induction emf is some times called.	A. Motional emf B. Constant emf C. Back emf D. Variable emf
10	The mutual inductance between two coils depends upon their	A. Size B. Core material C. Size, core material and separatio D. Separation
11	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
12	What is the co-efficient of mutual inductance, when the magnetic flux changes by 2 x 10^{-2} Wb, and change in current is 0.01 A?	A. 2 H B. 3 H C. 1/2 H D. Zero
13	Electromagnetic induction obeys law of conservation	A. Charge B. Energy C. Momentum D. Mass
14	The motional emf is give by	A. qvB B. IBL C. eBL D. vBL
15	For inducing emf in a coil the basic requirement is that:	A. Flux should link the coil B. Change in flux should link the coi C. Coil should form a closed loop D. Both (b) and (c) are true
		A. Faraday's law

16	I he direction of induced current is always so as to oppose the change which causes the current is:	B. Lenz's law C. Ohm's law D. Kirchhoff's 1st rule
17	Induced emf in A.C. generator can be increased by	A. Decreasing area of coil B. Decreasing magnetic field C. Increasing area of coil D. Slowing down speed of coil
18	If the coil is wound on iron core, the flux through it.	A. Decreases B. Becomes zero C. Increases D. Remains constant
19	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
20	Lenz's law presented in	A. 1834 B. 1934 C. 1826 D. 1836