

Physics ICS Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	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
2	The self induction emf is some times called.	A. Motional emf B. Constant emf C. Back emf D. Variable emf
3	Mutual induction has a practical role in the performance of the.	A. Radio choke B. Transformers C. A.C. Generator D. D.C. Generator
4	DC generator by william Sturgeon in:	A. 1894 B. 1961 C. 1834 D. 1961
5	Eddy current is one cause energy loss in	A. A.C. generator B. Transformer C. D.C. motor D. D.C. generator
6	If magnetic field is doubled then magnetic energy density becomes.	A. Four times B. Two times C. Three times D. Six times
7	If D.C. input for step up transformer, the output is	A. Zero B. High C. Low D. May be high or low
8	Energy stored in inductor is.	A. $\frac{1}{2} L I^2$ B. $\frac{1}{2} LI$ C. $\frac{1}{2} L^2 I$ D. $\frac{1}{2} L^2 I^2$
9	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
10	The direction of induced current is always so as to oppose the change which causes the current, this is the statement of	A. Lenz's law B. Faraday's law C. Ampere's law D. Coulomb's law
11	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's 1st rule
12	Energy density of an inductor is:	A. $U_M = \frac{1}{2} \mu \frac{B^2}{L}$ B. $U_M = 2 \mu \frac{B^2}{L}$ C. $U_M = \frac{1}{2} B^2 \mu$ D. $U_M = 2 B^2 \mu$
13	The device in which induced emf is statically induced emf is:	A. Transforms B. AC generator C. Alevator D. Dynamo
14	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's 1st rule
		A. Length of conductor

15	The motional emf depends upon the	B. Speed of conductor C. Strength of magnet D. All of these
16	Which of the following converts electrical energy into mechanical energy.	A. Transformer B. A.C. generator C. D.C. generator D. D.C. motor
17	Self induction does not depend on	A. Number of turns of the coil B. Area of cross section of the core C. Nature of material of the core D. Current through inductor
18	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
19	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
20	Which one is not present in A.C. generator.	A. Armature B. Magnet C. Slip rings D. Commutator