

Physics ICS Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	Mutual induction has a practical role in the performance of the.	A. Radio choke B. Transformers C. A.C. Generator D. D.C. Generator
2	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
3	Step up transfer has a transformation ratio of 3:2. What is the voltage in secondary , if voltage in primary is 30 V?	A. 45 V B. 15 V C. 90 V D. 300 V
4	The motional emf developed in a conduction depends upon.	A. Length B. Orientation C. Magnetic field D. All of the above
5	Which one is not present in A.C. generator.	A. Armature B. Magnet C. Slip rings D. Commutator
6	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
7	Which of the following converts electrical energy into mechanical energy.	A. Transformer B. A.C. generator C. D.C. generator D. D.C. motor
8	Output of D.C. motor is	A. A.C. energy B. Mechanical energy C. Chemical energy D. D.C. energy
9	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
10	split rings are used in	A. A.C. generator B. A.C. motor C. Transformer D. D.C. motor
11	<div style="border: 1px solid black; width: 100%; height: 15px; display: flex; align-items: center;"> Question Image </div>	A. Lenz's law B. Faraday's law C. Ampere's law D. None of these
12	If magnetic field is doubled then magnetic energy density becomes.	A. Four times B. Two times C. Three times D. Six times
13	Energy density of an inductor is:	A. $UM = \frac{1}{2}\mu B^2$ B. $Um = 2\mu B$ C. $UM = \frac{1}{2}B^2/\mu$ D. $Um = 2B^2/\mu$
14	DC generator by william Sturgeon in:	A. 1894 B. 1961 C. 1834 D. 1961
15	Flux density	A. Flux density B. ...

15	When a coil is moved in a uniform magnetic field, an induced emf is produced due of change in	B. Electric flux C. Magnetic flux D. Magnetic field strength
16	One henry is equal to	A. 1 ohm x 1 sec B. 1 ohm x 1 hertz C. 1 ohm x 1 metre D. All of above
17	The Lenz's law is also statement of:	A. Law of conservation of mass B. Law of conservation of charge C. Law of conservation of energy D. Law of conservation of momentum
18	Self inductance of a long solenoid is given by	D. None of the above
19	Energy stored in an inductor is:	A. $\frac{1}{2}L^2$ B. $\frac{1}{2}L^2$ C. $\frac{1}{2}LI^2$ D. $\frac{1}{2}LI$
20	Energy stored in inductor is.	A. $\frac{1}{2} L I^2$ B. $\frac{1}{2} LI$ C. $\frac{1}{2} L^2I$ D. $\frac{1}{2} L^2I^2$