

Physics ICS Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	The jerks in D.C. motor are created by the use of.	A. Armature B. Commutators C. Split rings D. Source of emf
2	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
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's 1st rule
4	The north pole of a magnet is brought near a metallic ring. The direction of induced current in the ring will be:	A. Antoclockwise B. Clockwise C. First Clockwise and then Antoclockwise D. First anticlockwise and then Clockwise
5	The Si unit of Mutual inductance is:	A. $VA^{-1}S^{-1}$ B. VAS^{-1} C. VSA^{-1} D. ASV^{-1}
6	Eddy current is produced when:	A. A metal is light in varying magnetic field B. A metal is kept in steady magnetic field C. A circular coil is placed in a steady magnetic field D. A current is passed through a circular coil
7	The illustration of the phenomenon of mutual induction is in the device of	A. Transformer B. Inductor C. A.C. Generator D. Ammeter
8	Commutator was invented in	A. 1834 B. 1820 C. 1840 D. 1835
9	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
10	In A.C. generator , when plane of coil is perpendicular to magnetic field, then output of generator is.	A. $N\omega AB$ B. $2\pi f$ C. Maximum D. Zero
11	Energy density of an inductor is:	A. $U_M = \frac{1}{2}\mu B^2$ B. $U_M = 2\mu B$ C. $U_M = \frac{1}{2}B^2/\mu$ D. $U_M = 2B^2/\mu$
12	The current induced can be increased by:	A. Using a stronger magnetic field B. Moving the loop faster C. Replacing the loop bay coi of many turns D. All of above
13	The induced emf in a coil is proportional to:	A. Magnetic flux through the coil B. Rate of change of Magnetic flux through the coil C. Area of the coil D. Product of magnetic flux flux and

		area of the coil
14	DC generator by william Sturgeon in:	A. 1894 B. 1961 C. 1834 D. 1961
15	The motional emf depends upon the	A. Length of conductor B. Speed of conductor C. Strength of magnet D. All of these
16	With the speed of motor, magnitude of back emf	A. Remain same B. Increase C. Decrease D. First increases then decreases
17	Lenz's law was given by Heinrich lenz in:	A. 1894 B. 1904 C. 1854 D. 1834
18	When back emf in motor is zero, it draws.	A. Zero current B. Minimum current C. Maximum current D. Steady current
19	The winding of the electromagnet in motor are usually called.	A. Magnetic coils B. Field coils C. Electric coils D. electric o electric coils
20	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