

Physics ICS Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	Energy stored in an inductor is:	A. $\frac{1}{2}L^2 ²I$ B. $\frac{1}{2}L^2 ²/I$ C. $\frac{1}{2}LI ²$ D. $\frac{1}{2}LI$
2	When back emf in motor is zero, it draws.	A. Zero current B. Minimum current C. Maximum current D. Steady current
3	Unit of self inductance is	A. Weber B. Tesla C. Henry D. Farad
4	Transformer is used to change	A. Electric power B. Magnetic field C. Alternating voltage D. Phase of A.C.
5	If a step up transformer were 100% efficient the primary and secondary winding's would have the same.	A. Current B. Power C. Voltage D. Direction of winding
6	If 10 A current passes through 100 mH inductor, then energy stored is.	A. 100 J B. 5 J C. 20 J D. Zero
7	In A.C. inductor behaves as	A. Capacitor B. Resistor C. Commutator D. Transistor
8	The induction can be increased by winding the wire around a core made of.	A. Copper B. Silicon C. Iron D. Aluminum
9	If we make magnetic field stronger the value of induced current is.	A. Decreased B. Increased C. Vanishes D. Remain constant
10	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
11	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
12	When a coil is moved in a uniform magnetic field, an induced emf is produced due of change in	A. Flux density B. Electric flux C. Magnetic flux D. Magnetic field strength
13	Lenz's law was given by Heinrich lenz in:	A. 1894 B. 1904 C. 1854 D. 1834
14	Energy density of an inductor is:	A. B. $U_m = 2\mu ²/B$ C. $U_m = \frac{1}{2}B^2 ²/\mu$ D. $U_m = 2B^2 ²/\mu$

15	If D.C. input for step up transformer, the output is	B. High C. Low D. May be high or low
16	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
17	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
18	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
19	Michael Faraday and Joseph Henry belongs to	A. England and USA B. France and USA C. China and USA D. None of these
20	The device in the circuit that consume electrical energy are known as.	A. Dissipaters B. Generator C. Load D. Motors