

## Physics FSC Part 2 Chapter 15 Online MCQ's Test

Sr	Questions	Answers Choice
1	A.C. Generator based upon the	A. Lenz's law B. Maxwell's relation C. Faradays law of electromagnet induction D. Mutual induction
2	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
3	If 10 A current passes through 100 mH inductor, then energy stored is.	A. 100 J B. 5 J C. 20 J D. Zero
4	In case of inductor , energy is stored in the	A. Electric field B. Magnetic field C. Potential field D. Gravitational field
5	If magnetic field is doubled then magnetic energy density becomes.	A. Four times B. Two times C. Three times D. Six times
6	Energy stored in inductor is.	A. $\frac{1}{2} L I^2$ B. $\frac{1}{2} L I$ C. $\frac{1}{2} L^2 I$ D. $\frac{1}{2} L^2 I^2$
7	$B^2/2\mu_0$ is the expression of.	A. Lenz's law B. Magnetic energy C. Magnetic energy density D. Back emf
8	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
9	Unit of self inductance is	A. Weber B. Tesla C. Henry D. Farad
10	By winding the coil around a less magnetic core, self induction.	A. Will increase B. Will decrease C. Remain same D. First increase then decrease
11	The induction can be increased by winding the wire around a core made of.	A. Copper B. Silicon C. Iron D. Aluminum
12	The self induction emf is some times called.	A. Motional emf B. Constant emf C. Back emf D. Variable emf
13	The mutual inductance between two coils depends upon their	A. Size B. Core material C. Size, core material and separation D. Separation
14	Mutual induction has a practical role in the performance of the.	A. Radio choke B. Transformers C. A.C. Generator D. D.C. Generator
15	SI unit of henry which is.	A. VSA-1 B. VS-1 A C. VS-1A-1 D. VSA

16 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

17 Mutual induction play role in.

- A. Generator
- B. D.C. motor
- C. Galvanometer
- D. Transformer