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**1. The property of coil by which a counter e.m.f. is induced in it when the current through the coil changes is known as**

- (a) self-inductance
- (b) mutual inductance
- (c) series aiding inductance
- (d) capacitance

Ans: a

**2. As per Faraday's laws of electromagnetic induction, an e.m.f. is induced in a conductor whenever it**

- (a) lies perpendicular to the magnetic flux
- (b) lies in a magnetic field
- (c) cuts magnetic flux
- (d) moves parallel to the direction of the magnetic field

Ans: c

**3. Which of the following circuit element stores energy in the electromagnetic field ?**

- (a) Inductance
- (b) Condenser
- (c) Variable resistor
- (d) Resistance

Ans: a

**4. The inductance of a coil will increase under all the following conditions except**

- (a) when more length for the same number of turns is provided
- (b) when the number of turns of the coil increase
- (c) when more area for each turn is provided
- (d) when permeability of the core increases

Ans: a

**5. Higher the self-inductance of a coil,**

- (a) lesser its weber-turns
- (b) lower the e.m.f. induced
- (c) greater the flux produced by it
- (d) longer the delay in establishing steady current through it

Ans: d

**6. In an iron cored coil the iron core is removed so that the coil becomes an air cored coil. The inductance of the coil will**

- (a) increase
- (b) decrease
- (c) remain the same
- (d) initially increase and then decrease

Ans: b

**7. An open coil has**

- (a) zero resistance and inductance
- (b) infinite resistance and zero inductance

- (c) infinite resistance and normal inductance
- (d) zero resistance and high inductance

Ans: b

**8. Both the number of turns and the core length of an inductive coil are doubled. Its self-inductance will be**

- (a) unaffected
- (b) doubled
- (c) halved
- (d) quadrupled

Ans: b

**9. If current in a conductor increases then according to Lenz's law self-induced voltage will**

- (a) aid the increasing current
- (b) tend to decrease the amount of current
- (c) produce current opposite to the increasing current
- (d) aid the applied voltage

Ans: c

**10. The direction of induced e.m.f. can be found by**

- (a) Laplace's law
- (b) Lenz's law
- (c) Fleming's right hand rule
- (d) Kirchhoff's voltage law

Ans: b