**Questions and Answers on the topic “Electromagnetic Induction”**

1. Electromagnetic Induction Phenomena is observed in \_\_\_\_\_\_\_ (Capacitor/Inductor)

Ans: Inductor

1. When a single coil is carrying a current, emf induced in it is called \_\_\_\_\_\_\_\_\_\_\_emf. (Self Induced/Mutually Induced)

Ans: Self Induced emf

1. When two coils are placed in a magnetic field, emf induced in them is called\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_emf(Self Induced/Mutually Induced)

Ans: Mutually induced emf

1. As per Faraday’s Law, equation of induced emf is \_\_\_\_\_\_\_.

Ans: e= - N (dϕ/dt)

1. List the devices in which Faraday’s law is applicable.

Ans: Transformer, Motors, Generators

1. State two laws applicable to magnetic circuit

Ans: Ohm’s Law and Kirchhoff’s Law

1. State the units of following:

* Magnetic Flux
* Magnetic Flux Density

Ans: Weber and Weber/m2

1. The direction of induced emf is decided by \_\_\_\_\_\_\_\_ law.

Ans: Lenz’s Law

1. The lines of flux always emerge from \_\_\_\_ pole to \_\_\_\_ pole.

Ans: North, South

1. If there is no movement of a magnet then emf is not induced in the coil. State whether True or False

Ans: True