

# Xdd

- 1 .- Scientific who should be the law of electromagnetic induction **Michael Faraday**
- 2 .- First made on Faraday discovered electromagnetic induction law: **A changing current in a coil induces current in another coil.**
- 3 .- One of the factors upon which the EMF induced in a coil when a magnet moves near it: **Speed with which changes the magnetic field flow through it.**
- 4 .- Physical quantity that measures the amount of magnetic field that crosses a certain surface: **Electromagnetic induction**
- 5 .- One of the magnitudes of which depend on the magnetic field flux through some **surface: Angle between the surface and the field lines**
- 6 .- The name of the phenomenon is the emergence of an electric current in a coil by varying the magnetic field flux passing through it: **the magnetic field flow**
- 7 .- Magnitude of which depends on the EMF induced in a coil: **How fast varying electric current in it**
- 8 .- Magnitude directly proportional to the speed with which changes the magnetic field flux through a loop: **Induced EMF**
- 9 .- Scientific who should be the rule for determining the direction of the current induced in a coil: **Heinrich Lenz**
- 10 .- General Law which is due to Lenz's law: **Energy Conservation**
- 11 .- One of two phenomena that can produce an emf induced in a coil, **a magnetic field variation**
- 12 .- fundamental conclusion that Maxwell came from theoretical reasoning: **A changing electric field creates a magnetic field**
- 13 .- Name of the potential difference that appears in a moving conductor in a magnetic field that varies with time: **FEM Movement**
- 14 .- basic physical principle of electric generators most widely used today: **induction of an emf by rotating spirals in a magnetic field**
- 15 .- basic physical principle of transformers: **Change in magnetic field flux through the windings**
- 16 .- phenomenon that retards the establishment of a constant electric current in a coil, when it is connected to a source of constant emf, **inductance of an emf**
- 17 .- One of the magnitudes of which depend on self-induced emf in a coil: **speed of relative motion between them.**
- 18 .- One of the magnitudes of which depend on the energy stored in a magnetic field of a coil: **Current intensity**
- 19 .- One of the magnitudes of which depend on the inductance of a coil: **Number of turns**
- 20 .- The name given to the propagation of oscillations of electric and magnetic field: **electromagnetic wave**