

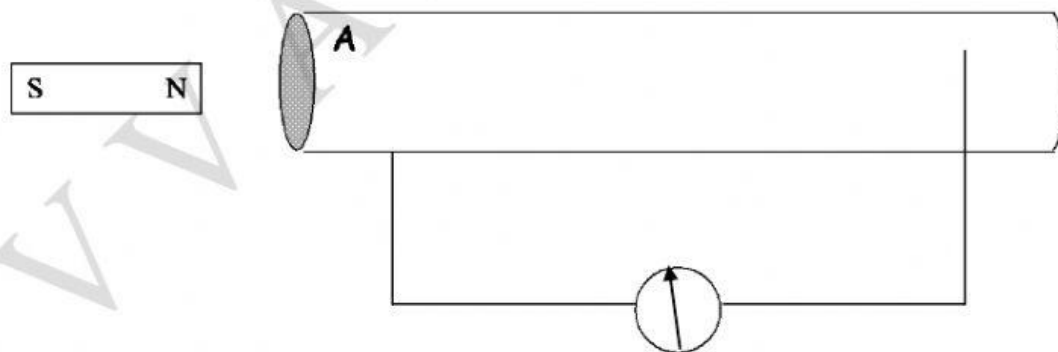
Worksheet on - Electromagnetic Induction.

I) Fill in the blanks with the words shown underneath by drag and drop in appropriate place:

- 1) When there is relative movement between a wire and a magnetic _____, then a _____ is _____ in the wire.
- 2) This is the principle used in a _____ and a dynamo.
- 3) Faraday found that the strength of the induced current _____ on:
 - i) the _____ of the movement
 - ii) the _____ of the magnet
 - iii) the _____ of turns on the coil.
- 4) Lenz's Law states that the _____ of the induced current is such that it always _____ the change producing it.

[depends, current, opposes, number, turbine, direction, strength, induced, field, speed]

II): Consider the diagram shown below.



Use Lenz's Law to explain what happens to the polarity of end A when the magnet is moved towards and the magnet move back to face A of the coil.

NORTH, NORTH

NORTH, SOUTH

SOUTH, SOUTH