

20/8/2020  
THURSDAY

# PHYSICS

STD-8  
class-17

• What are the factors affecting the induced emf?

- Ans) • No. of turns of the coiled conductor.  
• strength of the magnet.  
• Speed of movement of the magnet/solenoid.
- Which are the factors on which the direction of induced current in electromagnetic induction depend?

- Ans) • Direction of magnetic field.  
• Direction of movement of conductor.  
• Direction of current

• Complete the Table 3.3 on Textbook page no. 49.

Ans)

|  |  |
|--|--|
| <u>Activity - 1</u><br>The galvanometer, cell, resistor, and switch are connected in series. Circuit is switched on.           | Galvanometer needle deflected to one direction.  |
| <u>Activity - 2</u><br>The galvanometer is connected to a solenoid. A magnet is moved in and out continuously in the solenoid. | Galvanometer needle deflected to both direction. |

## Inference

|                       |                     |
|-----------------------|---------------------|
| Current from the cell | Induced current     |
| • unidirectional      | • Direction changes |
| • magnitude same      | • magnitude varies  |