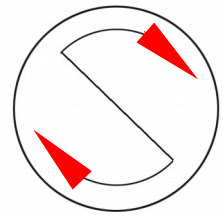
PHYSICS - X-PART-04 CLASS 16

Solenoid

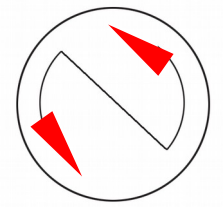
- A solenoid is an insulated wire wound in the shape of a helix.

How we can recognise the direction of magnetic field and the polarity of a current carrying solenoid.

- The end of the solenoid at which current flows in the clockwise direction will be the South Pole.



- The end of the solenoid at which current flows in the anticlockwise direction will be the North Pole.



The factors affecting the strength of the magnetic field of a solenoid carrying current.

- Intensity of electric current.
- The number of turns of the solenoid.
- The area of cross section of the solenoid.
- The area of cross section of the soft iron core.

Assignment

1. Complete the table 2.3

Bar magnet	Solenoid
The magnetism is permanent	The magnetism is temporary
.....	.....
.....	.....