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STUDY MATERIAL SCIENCE CLASS-VII

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▶ Heating & Magnetic effect of Electric current

Advantages of Electromagnets over Permanent Magnets

An electromagnet is a temporary form of the magnet because its magnetism is only for the duration of current flowing in its coil. Actually, an electromagnet is better than a permanent magnet in many respects. There are some of the advantages of the electromagnets over the permanent magnets which are stated as follows:

- The magnetism of an electromagnet can be switched ON or switched OFF as desired. While it is not possible with a permanent magnet.
- By increasing the number of turns in the coil and by increasing the current passing through the coil an electromagnet can be made very strong. On the other hand, a permanent magnet cannot be made so strong.