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TENDER HEART HIGH SCHOOL; SEC-33B, CHD.

CLASS - VII

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Subject: - PHYSICS

Ch-7 (Electricity and Magnetism)

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Q1 → What are the types of a magnet in general?

Ans → Magnets are of two kinds: -

(a) Natural magnets

(b) Artificial magnets.

Q2 → What are magnetic materials. Give examples.

Ans → Materials which are attracted by a magnet, are called magnetic materials. For e.g. Iron, steel, Cobalt etc.

Q3 → What are non-magnetic materials. Give examples.

Ans → Materials which are not attracted by a magnet are called nonmagnetic materials. For e.g. paper, wood, plastic, aluminium etc.

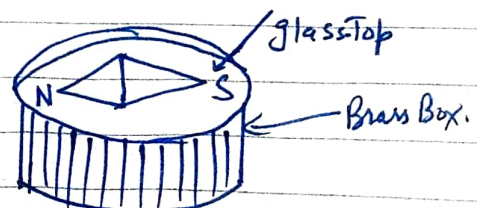
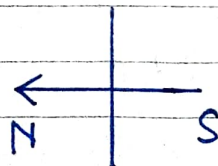
Q4 → State properties of a magnet.

Ans → (a) magnet has a property to attract ^{the} small pieces of iron towards it.

(b) A magnet always rests in the north-south direction if it is suspended freely.

Q5 → What is a magnetic compass?

Ans → It is a small magnetic needle pivoted at the centre of a small brass box which has a glass top. One end of the needle is painted red, which indicates the direction of north pole. This needle rests in north-south direction.

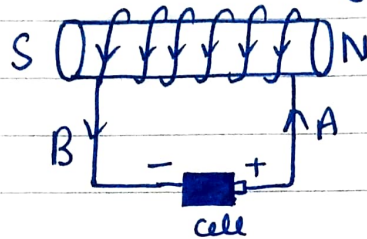


Q6 Define magnetic field.

Ans It is the space around the bar magnet in which the magnetic compass gets influenced is called its magnetic field.

Q7 :-> What is an Electromagnet?

Ans :-> An Electromagnet is a temporary magnet. It consists of a soft iron piece called the core on which a coil of insulated copper wire is wound. The ends of the coil are connected to a cell or a battery.



Q8 :-> State three uses of an Electromagnet.

- Ans :->
- (1) For separating magnetic substances from non-magnetic substances.
 - (2) For lifting and transporting big pieces of iron scrap, girders, plates etc. from one place to another.
 - (3) For loading furnaces with iron.
 - (4) In electrical gadgets like electric bell, : electromotor etc.

Q9 :-> What are the main sources of electricity?

- Ans :->
- (a) The electric cell and battery.
 - (b) The mains
 - (c) The generator, and
 - (d) The solar cells.

Q10 :-> What is an electric circuit?

Ans :-> The path along which the electricity flows is called an electric circuit.