Chapter: Electric Current and Its Effects

Subtopic: Magnetic Effect of Electric current.

Section 1- Fill in the blanks with appropriate words.

1a. A scientist named _____ noticed the deflection of compass needle every time the current was passed through the wire.

1b. Needle of a compass is a tiny magnet, which points in_____ direction.

1c. Compass needle gets _____ when the current flows in a nearby wire.

Section 2- Mark 'T' if the statement is true and 'F' if it is false:

2a. When the electric current is switched off, the coil generally loses its magnetism. ☐

2b. It is important to switch on the current for more than few seconds at a time. ☐

2c. A electric current can never act as a magnet. ☐

Section 3- Draw and identify the following diagrams.

3. Draw a magnetic effect of current on a compass needle.

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Section 4- Answer the following questions in one sentence.

4 Does the compass needle deflect when the switch is ON?

5 How does the deflection of the compass needle happen?

6 What happens when the switch is ON for more than few seconds?

Section 5 -Answer the following question in brief.

7 Write down the two situations in which magnetic needle shows deflection.

8 Define 'the needle of the compass'.

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Section 6- Answer the following questions in detail.

9 Explain with a neat diagram about how the magnetic effect of electric current was formed?

10 Write about the scientist 'Hans Christian Oersted' and its observations on the magnetic effect of Electric current.