

Science

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(Chapter 13)(Magnetic Effects of Electric Current)

Class - 10

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Question 1:

State the principle of an electric generator.

Answer 1:

An electric generator is based on the principle of electromagnetic induction. When a rectangular coil is rotated in a uniform magnetic field, an induced voltage is generated between the ends of the coil.

Question 2:

Name some sources of direct current.

Answer 2:

Some sources of direct current are a cell, a battery and a D.C. generator.

Question 3:

Which sources produce alternating current?

Answer 3:

A.C. generator and invertors (used in house for emergency power supply) produces alternating current.

Question 4:

Choose the correct option.

A rectangular coil of copper wires is rotated in a magnetic field. The direction of the induced current changes once in each

- | | |
|---------------------|---------------------------|
| (a) two revolutions | (b) one revolution |
| (c) half revolution | (d) one-fourth revolution |

Answer 4:

(c). When a rectangular coil of copper wire is rotated in a magnetic field, the direction of the induced current changes once in each half revolution.

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