

ATOMIC ENERGY EDUCATION SOCIETY

DISTANCE TEACHING PROGRAMME

CLASS X SCIENCE

WORK SHEET-1

CHAPTER: MAGNETIC EFFECT OF CURRENT (MODULE 2)

1. In which position the force on conductor is maximum when it is placed in uniform magnetic field?

Ans. When length of conductor is perpendicular to magnetic field.

2. Suppose you are sitting in a room facing one of the walls. An electron beam moving horizontally from your back goes towards the wall in front you and is deflected to your left, what is the direction of magnetic field in the room?

3. In which position the force on conductor is minimum when it uniform magnetic field is placed in?

4. According to Flemings left hand rule, which part of left hand indicate the Force on conductor?

5. What is the role of the split ring in an electric motor?

6. A current carrying conductor placed in magnetic field experiences a force. The displacement of the conductor in magnetic field can be increased by

(a) Decreasing the magnetic field.                      (b) Decreasing the current in the conductor.

(c) Increasing the magnetic field.                      (d) Increasing the current in the conductor..

7. A positively charged particle says an alpha particle projected towards west is deflected toward north by a magnetic field. The direction of the magnetic field is

(a) Upward                      (b) downward                      (c) towards south                      (d) towards east.

8. Which of the following properties of a proton can change when it moves freely in a magnetic field?

(a) Mass                      (b) speed                      (c) velocity                      (d) momentum

9. Electric motor converts:

(a) Mechanical energy into electrical energy

(b) Mechanical energy into heat energy

(c) Electrical energy into heat energy

(d) Electrical energy into mechanical energy

10. An electron projected towards west is deflected towards north by a magnetic field. The direction of magnetic field is:

(a) towards south                      (b) towards east                      (c) downward                      (d) upward