
CBSE TEST PAPER-01

SCIENCE & TECHNOLOGY (Class-10)

Chapter 13 : Magnetic Effects of Electric Current

1. Define magnetic fields lines. (1 marks)
2. When is the force experienced by a current-carrying conductor placed in a magnetic field largest? (1mark)
3. What is the role of slip rings in an AC generator? (1 mark)
4. Why does a compass needle get deflected when brought near a magnet? (2 marks)
5. State Fleming's left hand rule. (2 marks)
6. Draw the magnetic line of force of a bar magnet. (2 marks)
7. State and explain how right hand thumb rule indicates magnetic field. (2 marks)
8. Write two differences between direct current and alternating current. (2 marks)
9. Give three points of differences between an electromagnet and a permanent magnet. (3 marks)
10. Write down three precautions that should be taken to avoid the over loading of domestic electric circuits. (3 marks)
11. Give the wiring for a bulb and a three-pin socket only.
 - (b) What is the function of an earth wire? Why is it necessary to earth the metallic bodies of electrical appliances?
 - (c) What is the usual colour of the insulation of
 - (i) Live wire
 - (ii) neutral wire and
 - (iii) earth wire?

(5 marks)
