

CBSE TEST PAPER-05

SCIENCE & TECHNOLOGY (Class-10)

Chapter 13 : Magnetic Effects of Electric Current

1. What is the effect of placing an iron core in a solenoid? (1mark)
2. How much force is exerted by a magnetic field on a stationary charge? (1mark)
3. What is the effect of increasing the number of turns on the magnetic field produced due to a circular coil? (1mark)
4. Name the device which converts mechanical energy into electrical energy. (1mark)
5. Explain why the direction of induced current in the coil of an AC generator changes after energy half revolution of the coil. (2 marks)
6. Why does a current – carrying conductor experience a force in a magnetic field? (2marks)
7. Why do we use power supply of two different current ratings at our homes? (2 marks)
8. What is an electric fuse? What material is selected for fuse wire? (2marks)
9. Explain the use of an electric fuse. (2 marks)
10. What is the difference between direct current and alternating current? (2 marks)
11. Draw the pattern of field lines due to a bar magnet. Mention any two properties of the magnetic field lines. (3 marks)
12. Give three advantages of electromagnet over a permanent magnet? (3marks)
13. Give three points of differences between an electromagnet and a permanent magnet. (3 marks)
14. Draw a labelled diagram of an electric motor. Explain its principle and working. What is the function of a split ring in an electric motor? (5 marks)