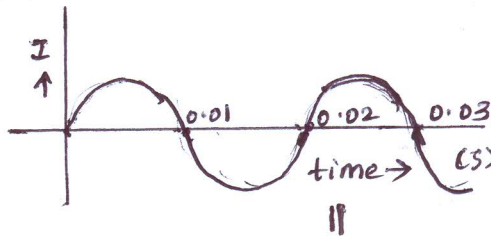
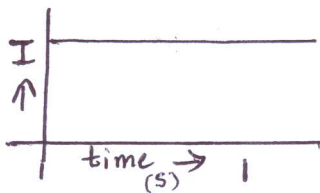


INTERNATIONAL INDIAN SCHOOL, RIYADH

CLASS X - PHYSICS WORKSHEET

Chapter 13 Magnetic effects of Electric current

1. List two properties of magnets and magnetic field lines.
2. Write the factors on which the magnetic field produced by a straight current carrying conductor depends.
3. Name a natural magnet.
4. What is a solenoid? Write one application of magnetic field of current carrying solenoid.
5. Describe an activity to show that a wire carrying an electric current behaves like a magnet.
6. What is an electromagnet? Write its two uses.
7. Why is soft iron core and not steel core used in electromagnets?
8. A straight conductor is held perpendicular to the plane of paper and it carries a current
a) upwards. b) downwards. - Draw the magnetic lines of force in each case. Also state the related rule.
9. How does the strength of the magnetic field at the centre of a circular coil of wire depend on
a) Radius of the coil. b) The number of turns of wire in the coil. c) The strength of current flowing in the coil?
10. Draw the pattern of magnetic field lines of a current carrying solenoid.
11. State Fleming's left hand rule and right hand rule.
12. You are given following current – time graphs from two different sources.



- i) Name the type of current in two cases.
- ii) Identify any one source for each type of these current.
- iii) What is the frequency of current in case II in India.
- iv) Use above graphs to write two differences between the current in two cases.

V) Write two advantages of II over I.

13. Name the composition of Fuse wire and write two characteristics essential for it.
14. Draw a schematic labelled diagram of a domestic electric circuit which includes a main fuse, a power meter, a light point, a fan and a power plug.
15. Write three differences between electromagnet and permanent magnet.
16. Two wires A and B are suspended freely. These wires are connected in series with a battery. Will these wires remain in their positions or move closer or move away from each other? Explain.

