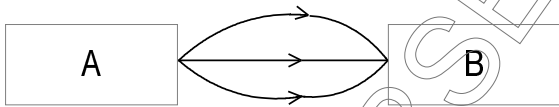


CBSE TEST PAPER-01

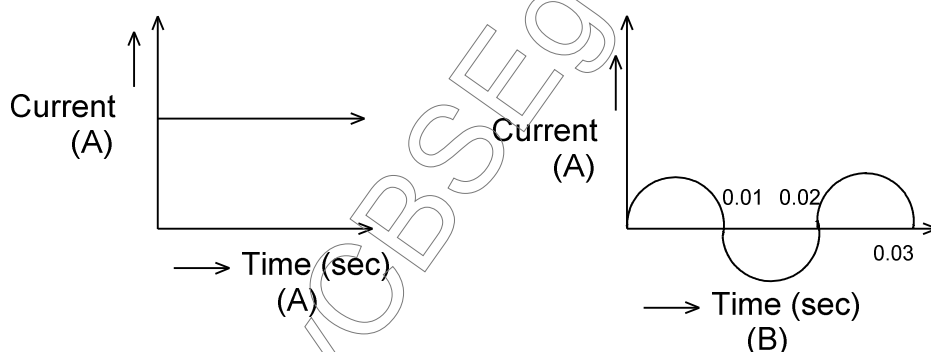
CLASS - X Science (Magnetic effects of electric current)

1. Magnetic field lines determine (1)
 - (a) The shape of magnetic field
 - (b) Only the direction of magnetic field
 - (c) Only the relative strength of the magnetic field
 - (d) Both the direction and the relative strength of magnetic field
2. A device for producing electric current is called a (1)
 - (a) Galvanometer (b) Motor (c) Generator (d) Ammeter
3. At the time of short circuit, the current in the circuit (1)
 - (a) vary continuously (b) reduced considerably
 - (c) increases heavily (d) does not change
4. Figure shows the magnetic field lines between the two faces A and B of two magnets. (1)



 - (a) Both faces A and B of two bar magnets are North pole.
 - (b) Both faces A and B of two bar magnets are South pole.
 - (c) Face A is south pole while face B is north pole.
 - (d) None of the above.
5. The magnetic field near a long straight wire is described by (1)
 - (a) Straight field lines parallel to the wire.
 - (b) Straight field lines perpendicular to the wire.
 - (c) Connective circle centered on the wire.
 - (d) Radial field lines starting from the wire.
6. State two properties of magnetic lines of force? (2)
7. Why does a compass needle deflected when brought near a bar magnet? (2)

8. The magnetic field lines in a given region is uniform. Draw a diagram to represent. (2)
9. Write two ways to induce current in a coil? (2)
10. What is the function of an earth wire? Why is it necessary to earth metallic casing of electric appliance? (3)
11. We know a current carrying conductor placed in a magnetic field experiences a force due to which the conductor moves. How do we think the rod displaces if- (3)
 - (a) current in rod is increased
 - (b) a stronger horse shoe is inserted
 - (c) length of the rod is increased.
12. What is the principle of electric motor? State the function of (3)
 - (a) split ring
 - (b) field magnet used in electric motor.
13. State three factor on which magnetic field produced by a current carrying solenoid depends. (3)
14. Current- time graph from two different sources are shown in the figure. (5)



- (i) Name the type of current shown by graph (A) and (B)?
- (ii) Name any one source of shown by (A) and (B)?
- (iii) What is frequency of current in case (B)?
- (iv) Write two difference between current shown by (A) and (B)?