
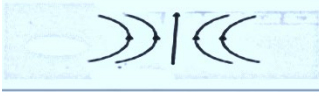





**CBSE class 10 - Magnetic Effects of Electric Current important questions Set A –  
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1. A positive charge moves from east to west in a magnetic field perpendicular to the plane of the paper and into the paper. In which direction the particle will deflect?
2. What is the magnetic line direction inside and outside of a bar magnet?
3. Draw a labelled circuit diagram of a D.C. electric motor and explain its working principle.
4. According to Flemings left-hand rule, If the forefinger gives the direction of the magnetic field and the thumb indicates the motion of the conductor, what does the middle finger indicate?
5. Explain the advantages of parallel arrangement used in our home appliances?
6. Draw a diagram of magnetic field line produced by a solenoid.
7. What is the proper working voltage and frequency of AC current of our home appliances?
8. What are the colours of Live wire, Neutral wire and Earth wire?
9. The magnetic field inside a solenoid is uniform or non-uniform?  
The magnetic field outside a solenoid is uniform or non-uniform?
10. Why two magnetic field line can never intersect each other?
11. How the magnetic field due to a carrying current solenoid varies if a soft iron bar inserted into the solenoid?
12. Why a suspended bar magnet is inclined at a certain angle with earth horizon when pointing in North South direction?
13. In which condition magnetic force experienced by a current carrying conductor placed in a magnetic field will be zero?
14. How we can change the pole of a magnetic field in a current carrying solenoid?
15. Magnetic field lines are always in the form of a closed loop. [ True or False ]

16. Match the nature of magnetic field lines given below:

List 1	List 2
	Uniform magnetic field
	Non-uniform magnetic field
	Magnetic field due to a straight
	Magnetic field inside a circular
	Magnetic field due to a solenoid

17. Find true or false:

- A motor works on the principle of electromagnetic induction.
- An electric motor converts mechanical energy into electrical energy.
- An AC generator has slip rings while DC generator has a commutator.
- An electric generator converts electrical energy into mechanical energy.

18. What is a commutator used in a dc motor?

19. The basic principle of working of motors is - Force on current carrying conductor.

[ True / False]

20. What are main difference between an AC generator and a DC generator?

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