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SUBJECT:- PHYSICS

CLASS:- XTH

DATE:08/03/XXI

SUBJECT TEACHER:- MR. NEEL NIRANJAN

CHAPTER 2. (MAGNETISM) (BASED ON NCERT PATTERN)

(REVISION)

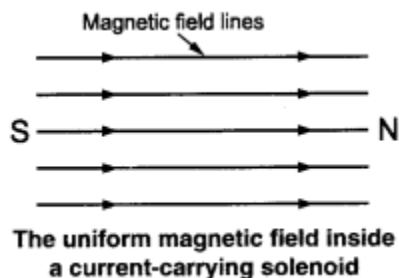
Question 1. What is the role of the split ring in an electric motor ?

Answer: The split ring reverses the direction of current in the armature coil after every half rotation, i.e., it acts as a commutator. The reversed current reverses the direction of the forces acting on the two arms of the armature after every half rotation. This allows the armature coil to rotate continuously in the same direction.

Question 2. The magnetic field in a given region is uniform. Draw a diagram to represent it.

Answer: A uniform magnetic field in a region is represented by drawing parallel straight lines, all pointing in the same direction.

For example, the uniform magnetic field which exists inside a current-carrying solenoid can be represented by parallel straight lines pointing from its S-pole to N-pole (as shown in figure).



Question 3. Which sources produce alternating current ?

Answer: Alternating current is produced by AC generators of nuclear power plants, thermal power plants, hydroelectric power stations, etc.