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SUBJECT:- PHYSICS

CLASS:- XTH

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SUBJECT TEACHER:- MR. NEEL NIRANJAN

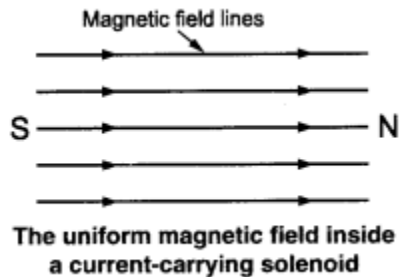
CHAPTER 2. (MAGNETISM) (BASED ON NCERT PATTERN)

(REVISION)

Question 1. 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 2. A positively-charged particle (alpha particle) projected towards west is deflected towards north by a magnetic field.

The direction of magnetic field is :

- (i) towards south
- (ii) towards east
- (iii) downward
- (iv) upward

Answer: (iv) Upward.

Here, the positively charged alpha particles are moving towards west, so the direction of current is towards east. The deflection is towards north, so the force is towards north,