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SUBJECT:- PHYSICS

CLASS:- XTH

DATE:05/09/XX

SUBJECT TEACHER:- MR. NEEL NIRANJAN

CHAPTER 2. (MAGNETIC EFFECTS OF AN ELECTRIC CURRENT) (BASED ON NCERT PATTERN)

(REVISION)

Question 1:

State any two properties of magnetic field lines.

Solution : Properties of magnetic field lines:

- (i) The magnetic field lines originate from the north pole of a magnet and end at its south pole.
- (ii) The strength of magnetic field is indicated by the degree of closeness of the field lines. Where the field lines are closest together, the magnetic field is the strongest there.

Question 2:

What are the two ways in which you can trace the magnetic field pattern of a bar magnet ?

- Solution :** (i) By using iron filings
(ii) By using compass

Question 3:

You are given the magnetic field pattern of a magnet. How will you find out from it where the magnetic field is the strongest ?

Solution : Magnetic field is the strongest at the place where the magnetic field lines are closest together.

Question 4:

State whether the following statement is true or false :

The axis of earth's imaginary magnet and the geographical axis coincide with each other.

Solution : False

The axis of earth's imaginary magnet is inclined at an angle of 15° with the geographical axis.