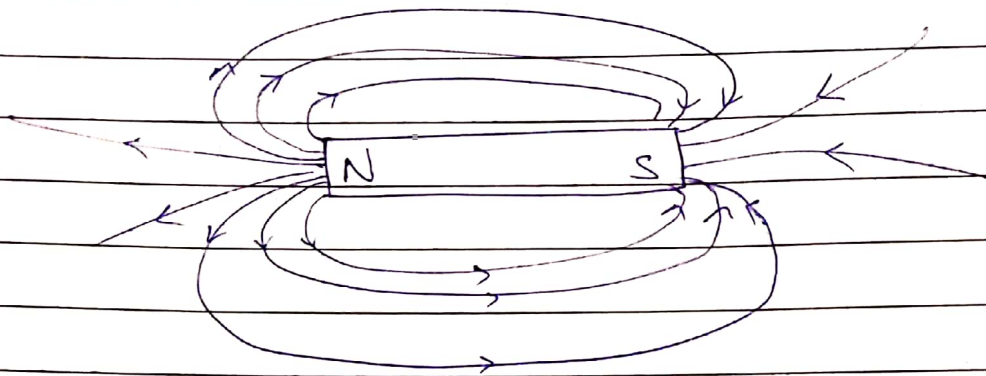


Properties of magnetic field lines:



- 1) They have both direction and magnitude.
- 2) They are closed and continuous curve.
- 3) Outside the magnet, they emerge from North-pole and merge at South-pole whereas inside the magnet, direction is from South-pole to north-pole.
- 4) They are crowded near the pole where magnetic field is strong and they are wider at other places of magnet where the magnetic field is weak.
- 5) Two magnetic field lines can never intersect each other because at the point of intersection, the compass needle would point towards two directions, which is not possible.