SCIENCE CLASS TEST

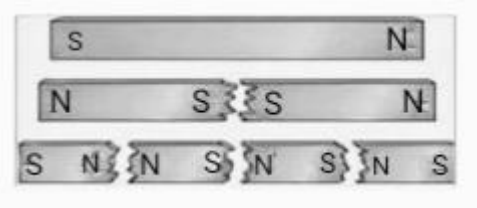
Date: 23.06.26 Full marks: 10

- Choose the correct option: (3 marks)
  1. Ronit, a science student likes experimenting with various things. So, he decided to replace the compass needle with aluminium . How will the new compass needle behave?
     A. The new compass needle will still point in the point in the North- South direction.
     B. The new compass needle will not point in any particular direction.
     C. The new compass needle will rotate randomly.
     D. The new compass needle will start pointing in East- West direction.

  2. Four students are trying to identify whether a **black rod P** is a magnet. They have one known bar magnet and some iron objects. Their observations are given below:
     Observation 1- When the north pole of the known magnet is brought near one end of rod P, the rod is attracted.
     Observation 2- When the south pole of the known magnet is brought near the same end of rod P, the rod is also attracted.
     Observation 3- When the north pole of the known magnet is brought near the other end of rod P, the rod is repelled.
     Observation 4- An iron pin sticks to rod P.
     Which of the observation proves that rod P is a magnet?
     A. Both observations 1 and 2
     B. Only observation 4
     C. Both observations 1 and 3
     D. Only observation 3

  3. Assertion (A): our Earth is a giant magnet.
     Reason (R): Earth's magnetic field leads the compass needle to risk in North-South direction.
     A. Both A and R are true and R is the correct explanation of A.
     B. Both A and R are true, but R is not the correct explanation of A.
     C. A is true but R is false.
     D. A is false but R is true.

- Subjective questions: (7 marks)
  4. Neeti cuts a bar magnet into 4 pieces. She ask her friend to mark the ends of all new 4 magnets, her friend mark the ends as shown in the image. (2+1+1)
     A. did Neeti's friend mark the ends correctly? If not, draw the diagram showing the correct ends?
     B. Which property of magnets is demonstrated in the situation?
     C. What is the scientific term used to denote the ends of a magnet?



  5. Draw a labelled diagram to show the correct process of storing bar magnets. (3)