

HIMALAYA INTERNATIONAL SCHOOL
Assignment I
CLASS VI SCIENCE

Q1. Tick (✓) the correct answer.

1. Which one of the following statements is incorrect?

- a. Magnetic force of attraction is maximum at poles.
- b. Magnetic influence can pass through wood.
- c. Unlike poles repel each other while like poles attract each other
- d. Magnetic poles exist in pairs.

Q2 Magnets can be demagnetised when

- a. they are placed side by side with unlike poles facing each other
- b. they are separated by a piece of wood in between
- c. are heated to a very high temperature
- d. all of these

Q3. Which of the following is a non-magnetic substance?

- a. Copper
- b. Cobalt
- c. Iron
- d. Nickel

Q4. What should a compass needle be made of?

- a. Copper
- b. Steel
- c. Wood
- d. Plastic

Q5. **Case study:**Few iron nails and screws got mixed with the wooden shavings while a carpenter was working with them.

1. How can you help him in getting the nails and screws back from the scrap without wasting his time in searching with his hands?

- a.by using hand
- b.by using iron
- c.by using magnet
- d. By using sieve

2.Which of the following properties is the sure test of magnetism.

- a. Attraction
- b.Repulsion
- c. Both (a.) and (b.)
- d. None of these

Q6. Spread some iron filings and place a bar magnet in it, the iron filings will

- a. cling to one end only
- b. spread uniformly over the magnet
- c. cling to each end of the magnet mostly and few near middle
- d. cling to the center

Q7.. Fill in the blanks.

1. A freely suspended magnet comes to rest in the _____direction

2_____is a phenomenon in which a permanent magnet loses its magnetism.

3. The magnetic force of a magnet is _____ at its poles.

4._____ is used by sailors and travelers to find the direction.

5. _____are used to prevent self-demagnetisation of magnets.

Q8. State whether the following statements are True or False.

1. All metals are magnetic materials.
2. A magnet with a single magnetic pole can exist.
3. A magnet can be demagnetised by hammering.
4. The magnetic axis of a freely suspended magnet always align in an east-west direction.
5. Magnetic force of a magnet is maximum at its centre.
8. Attraction but not repulsion is the sure test of magnetism.

Q9.. Give one word/term for the following.

1. Device used to find direction
2. Loss of magnetism over the time
3. Materials that gets attracted towards the magnet
4. Method of making magnet using one magnet
5. Soft iron pieces used to store magnets

Q10.Match the following:

- | | |
|---------------------|----------------------------------|
| 1. Electric bell | a. Natural magnet |
| 2. Magnetic compass | b. Regions of maximum attraction |
| 3. Magnetic poles | c. Uses magnet |
| 4. Magnetite | d. Attract each other |

5. Unlike poles

e. A navigational tool

Answer the following questions in brief.

Q11. Write three properties of a magnet.

Q12. Can a magnetic field pass through non-magnetic materials?

Q13. At which part of the magnet, the magnetic attraction is maximum?

Show it with the

help of a diagram.

Q14. Name all the types of magnets.

Q15. Write three uses of magnet.

Q16. What is the directive property of magnets? Write its one application.

Q17 What is self-demagnetisation?

Q18. Why does a freely suspended magnet align itself in the north-south direction?