Magnetic Materials and Non-Magnetic Materials

A. Choose the correct answer:

- 1. Which of the following materials is magnetic?
 - a) Copper
 - b) Plastic
 - c) Iron
 - d) Wood

2. What property makes a material magnetic?

- a) Its ability to float in water
- b) Its ability to attract iron, cobalt, or nickel
- c) Its ability to conduct electricity
- d) Its ability to glow in the dark
- 3. Which of these objects will NOT be attracted to a magnet?
 - a) Steel nail
 - b) Iron rod
 - c) Aluminum foil
 - d) Cobalt coin

B. Fill in the Blanks:

 Materials that are attract 	cted to magnets are called	materials
2. Non-magnetic materials	do not get attracted to a	·
3. Iron, nickel, and	are examples of magnetic	materials.

C. Case Study:

A school science club conducted an experiment to test the magnetic properties of different materials. They took objects like an iron nail, a plastic ruler, a steel spoon, and a wooden block and brought a magnet near them:

- The iron nail and the steel spoon were attracted to the magnet.
- The plastic ruler and wooden block showed no attraction.
- The teacher explained that only certain metals are magnetic, while others are not.

Questions & Answers:

- 1. Which materials in the experiment were magnetic?
- 2. Why were the plastic ruler and wooden block not attracted to the magnet?
- 3. What conclusion can be drawn about the materials that a magnet can attract?

4. Name any two real-life applications of magnetic materials.

D. Short Answer Questions:

- 1. What are magnetic materials? Give two examples.
- 2. Why is steel considered a magnetic material but aluminum is not?
- 3. How are magnets used in everyday life?

E. Long Answer Questions:

- 1. Explain the difference between magnetic and non-magnetic materials with examples.
- 2. Describe how magnets are used in industries and daily life.
- 3. Discuss the role of magnetic materials in technological advancements, such as electric motors and data storage devices.