

Section A: MCQs (1 mark each)

1. Which of these is an element?
 - a) Air
 - b) Gold
 - c) Salt
 - d) Water
2. What is a compound?
 - a) Single substance
 - b) Made of same atoms
 - c) Chemically combined elements
 - d) Just gases
3. Which can be separated by hand picking?
 - a) Water and salt
 - b) Sand and stones
 - c) Oxygen and nitrogen
 - d) Iron and sulfur

Section B: Assertion-Reason (1 mark each)

4. **A:** A compound can be separated by filtration.
R: Compounds are physically formed.
5. **A:** Salt solution is a mixture.
R: Salt and water are not chemically bonded.

Section C: Case Study (4 marks)**Mini Case Study:**

Seema mixed sand, salt, and iron filings. She used a magnet, then filtration, then evaporation.

- a) What was the first method she used and why?
- b) Which part was removed using filtration?
- c) What was left after evaporation?
- d) Was the original combination a mixture or compound?

Section D: Short Answer Questions**2-Mark Questions**

6. Define mixture with an example.
7. Write two properties of elements.

3-Mark Questions

8. Differentiate between compound and mixture with examples.
9. Explain sieving and give an example.
10. Why is air considered a mixture?

4-Mark Question

11. Draw a diagram to show three methods of separating mixtures and explain them.

