

Topic: Is matter around us pure

Short answers Type questions

1. Give the difference between mixture and compound.
2. A solution of alcohol in water has been prepared by mixing 150ml of alcohol with 600 ml of water. Calculate the volume percentage of the solution .
3. (a) Define an element.
(b) What is meant by malleability. Name any two substances that are malleable.
4. Differentiate between an element and a compound. Write one example each.
5. (a) Name the separation technique you would follow to separate:
 - i. Dyes from black ink
 - ii. A mixture of salt and ammonium chloride
 - iii. Cream from milk
 - iv. Sodium chloride from its solution in water(b) State the principle used in separating a mixture of two immiscible liquids.
6. Why does a copper sulphate solution in water not show the Tyndall effect but a mixture of water and milk does?
7. Name the separation technique by which we can obtain coloured components from ink? Give two more applications of the technique used.
8. Define evaporation. Explain any two factors that affect its rate.
9. What is chromatography? State its principle. Write one advantage of chromatography over other techniques.