

Topic: Is matter around us pure

Long answer type question

1. Omkar's mother mixed oil and water in kitchen by mistake Omkar told her that he can separate the mixture. Name the technique used by Omkar and explain how he will do with diagram and write the principle of this technique.
2. A student was given a mixture of iron filings and sulphur? He was told to heat it and observe the compound?
 - (a) what is coloured formed
 - (b) write the effect of magnet on it .
 - (c) write the action of carbon disulphide on it.
 - (d) describe the effect of adding dilute hydrochloric acid to it .Identify the gas and write its two properties.
3. Identify the physical and chemical changes from the following
 - a. heating the mixture of iron and sulphate
 - b. ripening of fruits
 - c. dissolution of salt in water
 - d. rusting of iron-chair
 - e. making egg omlets.
4. (a) While diluting a solution of salt in water a student accidentally added acetone to it . What technique can be applied to get back acetone and what is principle involved in this technique?
 - (b) Write three differences between physical and chemical change.
5. What is chromatography? How will you separate the components of black ink using chromatography? Write any two applications of chromatography.
6. (a) List any four properties of colloidal and mention any two properties in which colloids differ from suspension.
 - (b) State what is tyndal effect ? which of the following solution will show tyndal effect ? Starch solution, sodium chloride solution , tincture iodine , air.
7. (a) how much water should be added to 15g of salt solution?
 - (b) What is the main difference between aqueous solution and non-aqueous solution.
8. How will you justify the following changes are chemical change?
 - a. gasoline burning
 - b. egg cooking
 - c. bread rising
 - d. milk turning sour
 - e. sun – tanning