INDIAN SCHOOL NIZWA - WORKSHEET

CHEMISTRY

CH: 2 Is matter around us pure? Class: IX

1. Why does solution of sodium chloride not show Tyndall effect, whereas the mixture of water and milk shows?
2. Given a solution of substance 'A' how will you test whether it is saturated or unsaturated with respect to 'A' at given temperature?
3. "Water is a compound and not a mixture." Justify this statement giving four reasons.
4. a) A solution has been prepared by mixing 20 ml alcohol with 200 ml water . Calculate the percentage by volume of alcohol in water.
   b) Identify solute and solvent in 'tincture of iodine'
5. Calculate the amount of glucose required to prepare 250 g of 10% solution of sugar by mass.
6. How much water should be added to 15grams of salt to obtain 15% salt solution?
7. How many grams of salt are present if 20% of it is dissolved in 550g of solution?
8. Why air is considered as a mixture and not a compound?
9. What is a pure substance?
10. What are dispersed phase and dispersing medium in colloids?
11. Classify the following substances into true solutions, colloid and suspension.
    Brine, milk, chalk in water, starch in water, blood, ink, copper sulphate in water, mud in water, potassium permanganate in water.
13. Name the materials which show the following properties
    i) Average properties of constituents contained in it
    ii) Has a fixed ratio of the components
    iii) Can't be converted into simpler forms by ordinary chemical methods
14. Why is hydrogen considered as element?
15. Classify the following substance as element, compound and mixture.
    i)Sodium ii) Brass iii) Carbondioxide iv) Gun powder v) stainless steel vi)Ammonia vii) Glass viii) pure marble ix) blood x) soda water xi) wood xii) iron filings xiii) chlorine