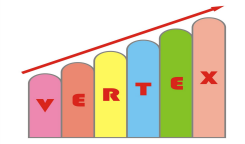

Is matter around us pure?

1. Calculate the masses of cane sugar and water required to prepare 200gm of 15 mass by mass solution of cane sugar in water.
2. Calculate the percentage composition in terms of mass of a solution obtained by mixing 300 gm of 25 and 400 gm of a 40
3. Justify hydrochloric acid is a compound
4. Compare give between alloy and metalloid with examples
5. Write down the properties of mixtures
6. Why air is considered as homogeneous?
7. Give two examples of colloid with phases
8. How can you identify that a given liquid is water?
9. How can you make unsaturated solution from saturated solution?
10. Why the cooking time on the hills is more than the planes?
11. Identify the following as element, compound and mixture

    CO, Co, salt, brine, fog, vinegar, iron fillings, alcohol
12. 30 gm of salt is dissolved in 350 gm salt water. Find the mass by mass percentage
13. Give example a) element + element=

    b) compound + compound =

    c) element + compound =

    14. what is the relation between temperature and solubility?

    15. differentiate between sol and gel

    16. write down the separation method

    a) a mixture of sulphur and carbon

    b) a mixture of ammonium chloride and sodium chloride

    c) a mixture of anthracene and copper sulphate

    d) a mixture of alcohol and water

    e) different blood cells

    17. differentiate between distillation and fractional distillation

    18. name solute, solvent, residue, filtrate etc of tea

19. What is the other name of churning? Write 2 applications

20. there are three liquids A,B,C all having different densities and different boiling points. Liquid a and c are organic in nature and B is inorganic. When liquids A and B are put in a container they form a single layer. On the other hand when B and C are mixed they form distinct layer. How can you separate A,B,C?

21. what is the composition of tincture of iodine? How can you separate those?