MASTER TUTORIALS

Topic Name: IS MATTER AROUND US PURE

1. If 55 g of salt are present in 550 g of solution, what is the concentration of the solution?
2. A solution contains 25 g of sugar in 100 g of water. Calculate the concentration of this solution.
3. A solution contains 50 mL of ethyl alcohol mixed with 150 mL of water. Calculate the concentration of solution.
4. A given solution contains 40 g of sugar in 320 g of solution. Calculate the concentration of solution.
5. A solution contains 30 g of common salt dissolved in 350 g of water. Calculate the concentration of solution.
6. Composition of mixture is fixed or variable.
7. Give one example of a solid solution.
8. Name two elements which are liquid at room temperature.
9. Name the solution which show Tyndall effect.
10. Name the process which is used in milk dairies to separate cream from milk.
11. Give one example of chemical changes.
12. Name a method to check the purity of a liquid.
13. Is sugar in water solution homogeneous or heterogeneous mixture ?
14. Give one example each of a homogeneous and a heterogeneous mixture
15. Name the process by which the coloured components can be obtained from blue ink?
16. Name the process used to separate a mixture of salt and ammonium chloride.
17. Name the method used to separate two miscible liquids.
18. Classify the following into elements and compounds :
    (i) H_2O (ii) He (iii) Cl_2 (iv) CO (v) Co
19. Name the apparatus you would use to separate oil from water.
20. What is the general name of the process by which tea-leaves are separated from prepared tea?
21. Which elements does steam contain?
22. Which of the two will scatter light, soap solution or sugar solution?
23. A solution contains 30 g of sugar dissolved in 370 g of water. What is the concentration of sugar solution?
24. When we heat iron filings and sulphur till red hot, do we get compound or mixture ?
25. What is the general name of the materials which contain at least two pure substances and show the properties of their constituents?
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