WORK SHEET -2 (Term -I)

CLASS -IX -2017-18

Subject-(Chemistry)

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| Q1. a) Which type of solution is formed when milk and water is mixed uniformly?  b) Identify the solute and solvent in tincture iodine. |
| Q2. a) State one similarity and one difference between evaporation and boiling.  b)List four factors which affect the rate of evaporation  c) How will you prove that water vapour are present in air. |
| Q3. Define:- Fluidity, Diffusion ,solution ,solute , solvent .  Rigidity, Compressibility, Inter-particle force of attraction  Inter particle spaces, Kinetic energy of particles |
| Q4. How would you show hydrogen is released when dil. Hydrochloric acid or Sulphuric acid is added to Zinc granules? Write the chemical reaction also. |
| Q5. You are given two samples of water A and B. One of them is pure water and the other is impure water. How will you identify which one is pure water? |
| Q6. A solution contains 20g of common salt dissolved in 250g of water. Calculate the concentration of the solution. |
| Q7. a)Why does steam at 100oc causes more severe burn than water at the same temperature?  b) Ice at 0oc is more effective in cooling than water at the same temperature? |
| Q8.Which type of solution is formed when starch powder and water or milk and water is mixed uniformly?  Q9.Identify the solute and solvent in tincture iodine. What is solvent and solute in tincture iodine? |
| Q10.Give reason for the following-  Gasses completely fill the vessel in which they are kept. |
| Q11.If 66g of salt is present in 660g of solution, what is the concentration of the solution? |
| Ritu got hurt while playing. Her friend Kavita took her to chemistry laboratory. She dissolved iodine in alcohol and applied it on her wound, Ritu got relief and thanked Kavita. The teacher also appreciated Kavita for her presence of mind.  What qualities are associated with Kavita?  What is iodine dissolved in alcohol called?  What is its use? |
| Q12.Sita purchased nail polish and did not use it for a long time. Nail polish dried up and she. Was going to throw it in the dustbin. Her friend Tripti suggested she should add nail polish remover in the nail polish and shake it well. Sita was surprised to see her nail polish worked very well. She thanked Tripti for helping her out.  What are the qualities associated with Tripti?  Q13.Name a solvent in which nail polish is soluble.  Q 14. Why should we keep nail polish in air tight bottle? |
| Q15.What is crystallization? Explain the processes to obtain a pure crystal from an impure sample. |
| Q16.Define – centrifugation, Magnetic separation. |
| Q17.Explain fractional distillation process with the help of diagram. |
| Q18.Give two reasons to support that water is a compound and not a mixture. |
| Q19.Suggest separation techniques to separate the mixtures-  a) Mercury and water  b) Potassium chloride and ammonium chloride  c) common salt, water and sand  d) kerosene oil, water and sand  e) sodium chloride with its solution in water  f) tea leaves from tea  g) iron pins from sand  h) different pigments from an extract of leaves  i) butter from curd  j) Fine mud particles suspended in water. |
| Q20. Give two differences between an element and a compound. |
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