

Assignment IX- Chemistry

2012-13 S.A.I.

Ch-1. Matter in our surroundings:-

- Q1. What Property of butane is utilized when it is supplied as L.P.G.?
- Q2. Describe an activity to show that particles of matter are continuously moving.
- Q3. What produces more severe burns, boiling water or steam? Explain Why?
- Q4. Which of the followings diffuses faster:
Honey, Sugar, Nitrogen gas
- Q5. Differentiate between Dry ice and ice.
- Q6. Define sublimation with example.
- Q7. You are provided with a mixture of naphthalene and ammonium chloride by your teacher. Suggest an activity to separate them with a well labeled diagram.
- Q8. It is hot summer day. Priyanshi and Ali are wearing cotton and nylon clothes respectively. Which one do you think would be more comfortable and why?
- Q9. Why does the temperature of a substance remain constant during its melting point or boiling point?

Ch-2. Is matter around us pure?

- Q10. How will you separate butter from milk?
- Q11. Classify the followings into true solution, colloidal solution and suspension.
Blood, Milk, Toothpaste, Salt Solution, Muddy Water
- Q12. Define solubility. What are the factors which effect solubility of solid in liquid and solubility of gas in liquid?
- Q13. Differentiate between distillation and fractional distillation.
- Q14. Smoke and fog both are aerosols. In what way are they different?
- Q15. What are the favorable qualities given to gold when it is alloyed with copper or silver for the purpose of making ornaments?
- Q16. An element is sonorous and highly ductile. Under which category would you classify this element? What other characteristics do you expect the element to possess?
- Q17. Give some examples of tyndall effect observed in your surroundings?

Q18..Calculate the mass % of a solution made by dissolving 25g of salt in 250g of water?

Q19 Explain the technique of Chromatography?

Q20. Air is a homogenous mixture of gases . How far do you agree with this statement in the light of presence of suspended particulate matter present in air nowadays?