

## **BRAIN INTERNATIONAL SCHOOL**

**Chemistry Assignment**

**Class: IX**

**July'21**

### **Chapter -2: Is Matter around Us Pure.**

#### **Q1. Answer the following questions:**

- 1 Explain, why air is a mixture and water is a compound?
2. How can we disinfect the water so as to make it free from micro-organisms? Explain.
3. What will happen if we add dil $H_2SO_4$  to :  
(i)mixture of iron filings and sulphur powder.  
(ii) Compound formed by heating iron filings and sulphur powder.
4. Calculate the concentration of a solution which contains 12g of urea in 160g of solution.
5. 5ml of  $H_2O_2$  is dissolved in 95ml of water .Calculate its % in volume by volume.
6. Smoke and fog both are aerosols .In what way are they different?
7. Explain the process of (i) Chromatography (ii) Sublimation
8. Can physical and chemical changes occur together? Illustrate your answer.
9. Distinguish between miscible liquids and immiscible liquids .Name the techniques used to separate these liquids.
10. What is the principle of centrifugation technique? Which kind of mixture can be separated using this technique?