



# **Class 09- Syllabus**

## **Science term 1**

- 1. Is matter around us pure?**
- 2. The fundamental unit of life**
- 3. Tissues**
- 4. Motion**
- 5. Force and laws of motion**

**Is matter around us  
pure?**

**Q) Which one of the following is most likely to exhibit tyndall effect:**

~~(A) sugar and water mixture~~

~~(B) salt and water mixture~~

(C) chalk powder and water mixture

(D) potassium permanganate and water mixture

**Sol.**

**Ans. (C)**

**Q) Which of the following is not a chemical change**

- ~~(A) Formation of curd~~
- ~~(B) ripening of banana~~
- ~~(C) sublimation of naphthalene~~
- ~~(D) corrosion of car~~

**Sol.**



**Ans. (C)**

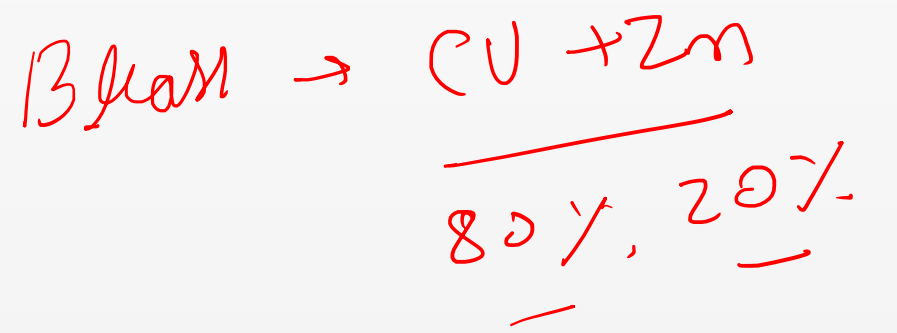
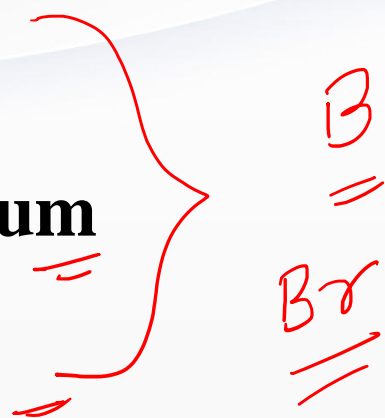
**Q) One of the following represents the solution of solid in a solid.**

**A. Boron**

**B. Brass**

**C. Beryllium**

**D. Bread**



**Sol.**

**Ans. (B)**

Q) A solution contains 50 mL of alcohol mixed with 150 mL of water.  
Calculate concentration of this solution.

- (A)  25%      (B) 30%  
(C) 33.33%      (D) 40 %

Sol.

$$\begin{aligned} \% \text{ V/V} &= \frac{\text{Vol}^m \text{ of solute}}{\text{Vol}^m \text{ of solution}} \\ &= \frac{50}{50 + 150} = \frac{50}{200} \times 100 = 25\% \end{aligned}$$

Ans. (A)

**Q) Which one of the following can not be separated by using water as solvent?**

**(A) copper sulphate and sand**

**(B) sand and potash alum**

**(C) sand and Sulphur**

**(D) sugar and sand**

**Sol.**

**Ans. (C)**



**Q) Which can not be separated from air by fractional distillation**

**(A) Oxygen**     **(B) Argon**

**(C) Nitrogen**     **(D) Hydrogen**

**Sol.**

**Ans. (D)**

**Q) Which one of the following does not undergo sublimation. This one is-**

**(A) Camphor**    **(B) Dry ice**

**(C) Silica**        **(D) Iodine**

*solid → liquid → sublimation*

**Sol.**

*€*

**Ans. (D)**