

BCM SCHOOL BASANT AVENUE LUDHIANA
Class -IX CHAPTER- Atoms and Molecules

1. An element X has valency 3 while the element Y has valency 2. Write the formula of the compound formed by X and Y.
 - a. X_2Y_2
 - b. X_3Y_3
 - c. XY
 - d. X_2Y_3
2. Define atomic mass unit.
3. How many atoms are present in a:
 - a. H_2S molecule and
 - b. Phosphate ion?
4. Find the ratio by mass of the elements present in the molecule of hydrogen sulphide (H_2S).
5. What is the difference between H_2 and $2H$?
6. Calculate the molar mass of ethyl alcohol (C_2H_5OH).
7. Write the chemical formulae of the following.
 - i. Magnesium chloride
 - ii. Calcium oxide
 - iii. Copper(II) nitrate
 - iv. Aluminium chloride
 - v. Calcium carbonate.
8. State law of constant proportion. Who gave this law.