

MODEL ACTIVITY TASKS
CLASS – XI
CHEMISTRY

Chapter : Some basic concepts in chemistry

Write the answers to the following questions :

1.
 - a) If the reference of atomic weight scale is changed from the present one, viz. $^{12}_6\text{C} = 12.00000$ units to $^{12}_6\text{C} = 24.00000$ units, will it lead to any change in the atomic weights of other elements? Explain.
 - b) Will it lead to any change in the magnitude of the atomic mass unit?
 - c) Will the molar volume of an ideal gas remain 22.4 L despite the said change in the atomic weight scale?
2. Will there be any difference in the experimentally determined values of Avogadro constant in two scales of atomic weight, one in which $^{12}_6\text{C} = 12.00000$ units, and the other where $^{16}_8\text{O} = 16.00000$ units? Give reasons.
3. Explain why the term “molecular weight” is inappropriate for sodium chloride.
5. Explain the significance of Avogadro constant in physics, chemistry, biochemistry etc.

Students will write answers to these activity tasks in subject specific exercise books at home, and submit the exercise books to respective subject teachers after schools reopen.
Under no circumstance, students will go out of home.