



MANGU LEARNING CENTER

Sample questions (New Curriculum)

Subject : CHEMISTRY

Topic : *(Structure & Bonds)*

Suitable for Senior Three and Four 2023-2024

- 1. You are given a compound and asked to determine its bonding type. How would you approach this task, and what are the key pieces of evidence you would look for?*
- 2. You are given the molecular formula of a compound. How would you predict the type of bonding present and justify your reasoning?*
- 3. A student is confused about. How would you explain these concepts succinctly and the differences between ionic and covalent compounds provide examples to clarify the distinction?*
- 4. You are asked to compare the properties of two substances with different types of intermolecular forces. How would you analyze their differences in terms of boiling points and solubility?*
- 5. You are tasked with designing a compound that exhibits both metallic and covalent bonding characteristics. How would you approach this design and what factors would you need to consider?*
- 6. A molecule is known to have a polar covalent bond. How would you determine the overall polarity of the molecule and provide an example to support your analysis?*
- 7. You are given a series of compounds with different bond lengths. How would you analyze the relationship between bond length and bond strength, and explain the implications of this relationship?*

.....The End....