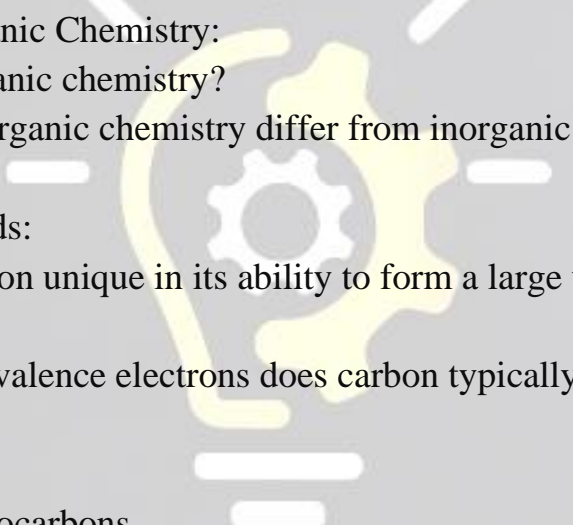


# AIS Learning

## A/L Chemistry

### Practice Tutorial

#### Lesson 01: Introduction To Organic Chemistry

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1. Definition of Organic Chemistry:
- What is organic chemistry?
  - How does organic chemistry differ from inorganic chemistry?
2. Carbon Compounds:
- Why is carbon unique in its ability to form a large variety of compounds?
  - How many valence electrons does carbon typically have?
3. Hydrocarbons:
- Define hydrocarbons.
  - Provide examples of saturated and unsaturated hydrocarbons.
4. Functional Groups:
- What are functional groups in organic chemistry?
  - Give an example of a functional group and its role in a compound.
5. Isomerism:
- Define isomerism.
  - Provide an example of structural isomerism.
6. Alkanes:
- Define alkanes.
  - What is the general formula for alkanes?

7. Alkenes and Alkynes:

- a. Define alkenes and alkynes.
- b. What is the key difference between them?

8. Alcohols:

- a. Define alcohol.
- b. Provide an example of an alcohol and its structural formula.

9. Carboxylic Acids:

- a. Define carboxylic acids.
- b. What is the functional group in carboxylic acids?

10. Biomolecules:

- a. Name four major classes of biomolecules studied in organic chemistry.
- b. Provide an example of a biomolecule in each class.

*Try those questions by yourself and submit your answers to us.*

*We can evaluate it for you!!!!*

*Happy Learning!!!!*

*-Evaluation Team AIS Learning*

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