

1.1.2 Scope of Chemistry

Part Two

True or False Questions

1. Physical chemistry studies only the rates of chemical reactions.
2. Organic chemistry focuses exclusively on substances containing carbon.
3. Inorganic chemistry is primarily concerned with carbon-based substances.
4. Analytical chemistry involves the composition of matter and the quantification of chemicals.
5. Biochemistry studies chemical processes that occur in both living and non-living things.
6. All disciplines of chemistry rely on measurements and observations to draw conclusions.
7. Chemistry has no effect on the natural world.
8. The study of chemistry can help prepare individuals for various career opportunities.
9. Fluorochlorohydrocarbons are examples of substances that can negatively affect the environment.

10. Analytical chemists use simple tools to analyze unknown materials.
11. Carbon is one of the least abundant elements on Earth.
12. Inorganic chemistry deals with substances commonly found in rocks and minerals.
13. The primary goal of studying chemistry is to create harmful substances.
14. Biochemistry can help in understanding disease states for better treatment options.
15. Chemistry is only involved in technological development, not in understanding the natural world.

Match the branch of chemistry (Column A) with its description (Column B):

Put the correct number in the space provided

Column A

1. Physical Chemistry
2. Organic Chemistry
3. Inorganic Chemistry
4. Analytical Chemistry

Column B

-A. Study of substances that are not primarily based on carbon
-B. Study of chemical processes in living organisms
-C. Study of the composition of matter and analysis of substances
-D. Study of macroscopic properties and phenomena in chemical systems

Column A

5. Biochemistry

6. Energy Technology

7. Environmental Chemistry

8. Medicinal Chemistry

9. Theoretical Chemistry

10. Chemical Engineering

11. Industrial Chemistry

12. Materials Science

Column B

.....E. Study of substances containing carbon, including a vast number of chemicals

.....F. Focus on the design and properties of materials for energy applications

.....G. Investigation of the impact of chemicals on the environment

.....H. Development of pharmaceutical substances to treat diseases

.....I. Exploration of chemical theories and models

.....J. Application of chemistry principles to large-scale industrial processes

.....K. Focus on the production of chemicals for commercial use

.....L. Study of the properties and applications of various materials