

# UNIT ONE

## Unit One : Worksheet One

### Definition and Scope of Chemistry

1. Which branch of science studies the structure of matter?
  - a) Chemistry
  - b) Biology
  - c) Physics
  - d) Paleontology
2. The terms deals with the properties, composition, structure and transformation of substances fit under which branch of science?
  - a) Chemistry
  - b) Biology
  - c) Biochemistry
  - d) Physical science
3. The terms chemical change and physical change fit under which branch of science?
  - a) Biochemistry
  - b) Biology
  - c) Physics
  - d) Chemistry

4. The branch of science that involves the study of chemical reaction in living things.
  - a) Biology
  - b) Biophysics
  - c) Biochemistry
  - d) physics
  
5. The branches of natural science studying the composition of compounds and the processes taking place in organisms, respectively, are:
  - a) Chemistry and Biology
  - b) Physics and Geology
  - c) Biology and Physics
  - d) Biology and Geology
  
6. Which of the following is not under the scope of chemistry?
  - a) Role of chemistry in war
  - b) In transport and communication
  - c) Entertainment
  - d) Building materials
  - e) None
  
7. Which of the following are problems by progress in chemistry:
  - a) Disposal of nuclear waste poses a serious problem to humanity.
  - b) Antibiotics have eliminated infectious diseases but their overuse is very harmful.
  - c) Use of polythene bags is posing a serious threat to sewerage system.
  - d) All

**I. Match the terms in column “A” with a suitable description in column “B”**

**( Put the correct number in the space provided )**

- |                           |  |
|---------------------------|--|
| 1. Structure of substance | .....Is the science that deals with the properties, composition, and structure of substances |
| 2. Property of substance  | ..... a particular kind of matter with uniform properties.                                   |

- |                                |   |
|--------------------------------|---|
| 3. Chemistry                   | .....a physical substance, that which occupies space and possesses rest mass.                   |
| 4. Transformation of substance | ..... the nature of something's ingredients or constituents; how a whole or mixture is made up. |
| 5. Substance                   | ..... Is the attribute, quality, or characteristic of a substance                               |
| 6. Composition of substance    | ..... The arrangement and relationships between the parts or elements of something complex      |
| 7. Matter                      | ..... change in form, nature, or appearance of a substance                                      |

**II. Match the correct chemical products in column "B" with the suitable areas listed in column "A"**

- |                    |  |
|--------------------|--|
| 1. Building areas  | .....Pesticides, Insecticides, Herbicides, Fungicides, Algaecides, Fertilizers, Soil conditioners. |
| 2. Agriculture     | ..... hydrochloric acid, acetic anhydride, benzyl chloride, diethyl ether                          |
| 3. Medicine        | .....preservatives, sweeteners, backing soda, calcium chloride, flavor enhancers                   |
| 4. Food production | .....Epoxy Adhesives, Hardeners, water proofing chemicals  |