Language of Chemistry

DPP 1

- **1.** Fill in the blank spaces with the appropriate words given within the brackets.
 - (a) The short hand representation of an _____ (element/compound) is called symbol.
 - (b) The substance/substances which take part in a chemical reaction are called _____ (reactants/ products).
 - (c) A chemical equation does not tell about _____ (rate/kind) of chemical reaction.
 - (d) A symbol represents _____ (1atom/1molecule) of an element.
 - (e) Chemical ______ (symbol/formula) of substance is the symbolic representation of actual number of atoms present in one molecule of a substance.
- 2. Statements given below are incorrect. Write the correct statements.
 - (a) The valency of ferrous ion is 3 positive.
 - (b) The formula of ammonium dichromate is (NH₄)₂ CrO₄.
 - **(c)** A chemical equation tells by volume the amount of reactants and products.
 - (d) Valency is the number of hydrogen molecules which combine directly or indirectly with one atom of an element.
 - (e) A chemical equation does not tell about the chemical state of reactants or products.
- 3. (a) What do you understand by the term "chemical formula"?
 - (b) What information is conveyed by the formula H₂O?

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LAUNGUAGE OF CHEMISTRY DPP 2

Tick the most appropriate answer

- 1. Symbol represents the short form of a/an
 - a. Molecule
 - b. Elements
 - c. Compound
 - d. Radical

2. Chemical formula is the symbolic representation of actual number of atoms present in one-----of a substance.

- a. Compound
- b. Element
- c. Molecule
- d. Radical
- 3. When an element exists as a molecule it consists two or more
 - a. Ions
 - b. Radicals
 - c. Atoms
 - d. Valency
- 4. The chemical formula of cacium chloride is
 - a. CaCl
 - b. Ca₂Cl
 - c. CaCl₂
 - d. Ca2Cl2
- 5. What is symbol?
- 6. What do you understand by the term chemical formula?
- 7. What qualitative information is given by the formula HCL?
- 8. What do you understand by the term variable valency?
- 9. Write the chemical formulae of the following compounds:
 - a. Magnesium sulphate
 - b. Aluminium sulphate
 - c. Aluminium phosphate
 - d. Potassium chlorate
 - e. Potassium nitrate

LAUNGUAGE OF CHEMISTRY DPP 3

- 1. Statement given below are incorrect. Write the correct statements.
- 2. Chemical formula of aluminium sulphate is Al3(SO4)2.
- 3. When magnesium is placed in contact with oxygen, it forms magnesium hydroxide.
- 4. The substance/substances which take part in a chemical reaction is re known as active substance/substances.
- 5. When a chemical equation is made concise by using symbols and formulae, then it is called balanced equation.
- 6. When wood burns in air, then this reaction is violated the law of conservation of mass.
- 7. (a) What do you understand by the term chemical equation?

(b) Why should a chemical equation be always balance?

8. Balance the following equations:

(a)
$$KNO_3 \rightarrow KNO_2 + O_2$$

- (b) Mg + $0_2 \rightarrow MgO$
- (c) $KClO3 \rightarrow KCl + O2$
- 9. (a) State law of conservation of mass.
 - (b) What information is conveyed by a balanced chemical equation?
- 10. The molecular formula of compound aluminium sulphte is
 - (a) Al₂SO₄
 - (b) Al(SO4)3
 - (c) Al₂(SO₄)₃
 - (d) ALSO4
- 11. Write the chemical formula of the following compounds:
 - (a) Potassium nitrate
 - (b) Aluminium oxide
 - (c) Calcium sulphate
 - (d) Potassium chloride
 - (e) Ammonium hydroxide
 - (f) Sodium hydroxide
 - (g) Potassium hydroxide
 - (h) Nitric acid