

Chapter No. 5 Basic constituents of matter.

① the pure substances which cannot be further decomposed through chemical process are called _____

- (a) elements
- (b) compounds

→ (a) elements.

② ~~are~~ _____ are pure substances formed from two or more elements through chemical combination.

- (a) molecules
- (b) compounds
- (c) elements
- (d) atoms

→ (b) compounds

③ _____ is the smallest particle which shows all the ~~are~~ characteristic properties of an element.

- (a) water
- (b) sugar
- (c) atom
- (d) molecules

→ (c) atom.

④ _____ is the symbol Iron.

- (a) Na
- (b) K
- (c) Cl
- (d) Fe

→ (d) Fe

⑤ _____ are the smallest particles which can exist independently.

- (a) molecules
- (b) atoms
- (c) elements
- (d) compounds

→ (a) molecules.

⑥ molecules with only one atom are called _____

- (a) diatomic
- (b) polyatomic
- (c) monoatomic
- (d) None of above

→ (c) monoatomic

⑦ _____ chemical formula of water.

- (a) H_2O
- (b) CO_2
- (c) O_2
- (d) H_2S

→ (a) H_2O

8) _____ is latin name potassium.

- (a) Natrium (b) Kalium (c) Ferrum (d) Cuprum.
→ (b) Kalium

9) The substances taking part in a chemical reaction are called _____

- (a) products (b) reactants (c) products
→ (b) reactants.

10) What is balance chemical equation?

→ when a chemical equation is written, the number of atoms of the same kind, on the side of reactants + that of products should be equal. This type of chemical equations are called balance chemical equation.

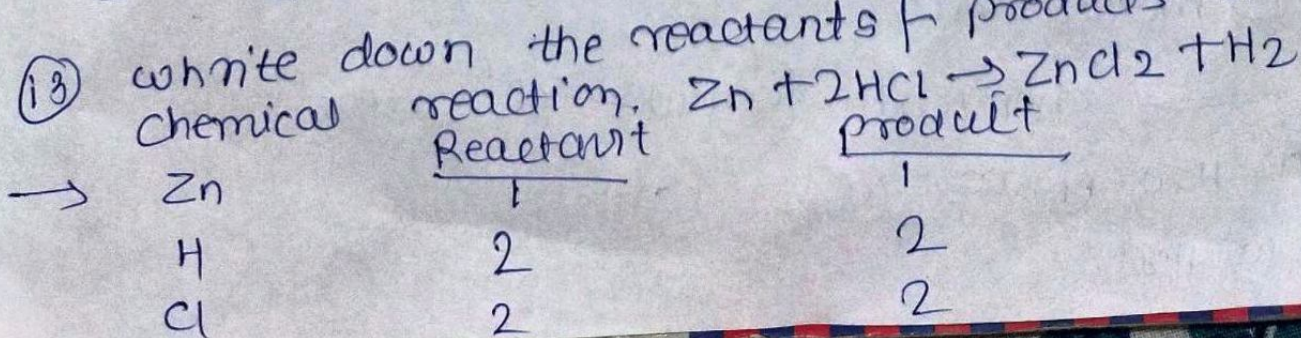
11) What is chemical formula?

→ In carbon dioxide molecule, the ratio of carbon atoms to oxygen atom is always 1:2. Thus carbon dioxide molecule can be represented as CO_2 . This type of representation is known as chemical formula of the compound.

12) Write down symbol of following elements.?

- (a) calcium - Ca
(b) chloride - Cl
(c) chromium - Cr
(d) Bromine - Br
(e) Beryllium - Be.

13) Write down the reactants & products of chemical reaction.



Balance the following chemical reaction.

