Science

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(Class – IX)

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Question 1:

Write down the formula of

- (i) sodium oxide
- (ii) aluminium chloride
- (iii) sodium suphide
- (iv) magnesium hydroxide

Answer 1:

(i) Sodium oxide	\rightarrow	Na2O
(ii) Aluminium chloride	\rightarrow	AlCl3
(iii) Sodium suphide	\rightarrow	Na2S
(iv) Magnesium hydroxide	\rightarrow	Mg(OH)2

Question 2:

Write down the names of compounds represented by the following formula:

- (i) Al₂(SO₄)₃
- (ii) CaCl₂
- (iii) K₂SO₄
- (iv) KNO3
- (v) CaCO₃

Answer 2:

- (i) $Al(SO_4)_3 \rightarrow Aluminium sulphate$
- (ii) CaCl₂ \rightarrow Calcium chloride
- (iii) K₂SO₄ \rightarrow Potassium sulphate
- (iv) CaCO₃ \rightarrow Calcium carbonate

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Question 3:

What is meant by the term chemical formula?

Answer 3:

The chemical formula of a compound means the symbolic representation of the composition of a compound. From the chemical formula of a compound, we can know the number and kinds of atoms of different elements that constitute the compound. For example, from the chemical formula CO₂ of carbon dioxide, we come to know that one carbon atom and two oxygen atoms are chemically bonded together to form one molecule of the compound, carbon dioxide.

Question 4:

How many atoms are present in a

- (i) H₂S molecule and
- (ii) $PO_{4^{3-}}$ ion?

Answer 4:

- (i) In an H₂S molecule, three atoms are present; two of hydrogen and one of sulphur.
- (ii) In a $PO_{4^{3-}}$ ion, five atoms are present; one of phosphorus and four of oxygen.