

Bharatiya Vidya Bhavans, V.M. Public School

Ch 7 –Elements, Compounds and Chemical Equations

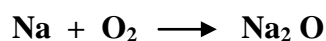
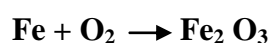
I Classify the following into elements and compounds.

**Sodium, calcium carbonate, tin, glucose, copper sulphate, mercury, methane
nitric oxide, sulphur, silicon, sodium sulphate, chlorine**

II Write the molecular formula of the following:

- a) Magnesium Sulphate b) Sodium hydroxide c) Magnesium Oxide
d) Calcium Chloride e) Potassium Nitrate**

III Balance the given chemical equations.



IV Answer the following questions.

Q1 What is the difference between elements and compounds?

Q2 Define : a) Radicals b) Valency

Q3 Explain why, water is a compound and not a mixture.

Q4 What are pure substances? Give two examples.

Q5 What is chemical equation? Explain with an example.

V Choose the correct option.

1 Which of the following is not a compound

- a) Quicklime b) Baking soda c) Soap d) Platinum**

2 On the basis of composition of matter, milk is considered to be

- a) A pure substance b) An impure substance
c) An element d) A compound**

3 Which of the following is not an element?

- a) Graphite b) Silica c) Silicon d) Boron**

4 Which of the following is a compound?

- a) Hydrogen b) Oxygen c) Steam d) Chlorine**

- 5 Which of the following will form positive ion?
a) Chlorine b) Oxygen c) Nitrogen d) Magnesium
- 6 The English name of an element is potassium, its Latin name will be
a) plumbum b) cuprum c) kalium d) natrium
- 7 The symbol of a metal which is used in thermometers
a) Ag b) Hg c) Au d) Fe
- 8 Which of the following shows valency 3 ?
a) Aluminium b) copper c) silver d) magnesium
- 9 Which of the following is not the molecules of compounds?
a) CH₄ b) NH₃ c) SO₂ d) P₄
- 10 Which of the following is not an inert gas?
a) He b) Ar c) Kr d) Fe

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