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الملف Worksheet about Chemical equation and molecular

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Gyanodaya Model Secondary School

Chandrakot-8, Majuwa Gulmi, Lumbini Province, Nepal

Science

Class: 9

Unit: 8 & 9

Your full name:

Attempt all the questions:

A. MCQs type (Directions: Choose only one best alternative)

- 1)is the shape of a dumb bell
 - a. d- orbital
 - b. f-orbital
 - c. p- orbital
 - d. s- orbital
- 2) The valency of phosphate radical is
 - a. -2
 - b. -4
 - c. -3
 - d. 3
- 3) The noble gases like Ne, Ar etc are gases
 - a. monatomic
 - b. diatomic
 - c. reactive
 - d. metallic
- 4) Which of the following is correct?
 - a. Covalent compounds are soluble in water.
 - b. Covalent compounds are mostly gases.
 - c. They have high mpt and bpt.
 - d. They are formed by gaining and losing of electrons.
- 5) Which is the correct molecular formula of cupric chloride?
 - a. CuCl
 - b. Cu₂Cl
 - c. CuCl₂
 - d. CuCl₃
- 6) What is the valency of 'X' in XCl₅?
 - a. 5
 - b. 3
 - c. 4
 - d. 2
- 7) The correct balanced chemical equation is,
 - a. $C_6H_{12}O_6 + 6O_2 \rightarrow CO_2 + H_2O + \text{energy}$
 - b. $C_6H_{12}O_6 + 6O_2 \rightarrow 6CO_2 + 6H_2O + \text{energy}$
 - c. $C_6H_{12}O_6 + 6O_2 \rightarrow 2CO_2 + H_2O + \text{energy}$
 - d. $C_6H_{12}O_6 + 3O_2 \rightarrow 3CO_2 + 6H_2O + \text{energy}$

- 8) "Sodium + Oxygen \rightarrow Sodium oxide". Balanced chemical equation of this reaction is,
- a) $\text{Na} + \text{O}_2 \rightarrow \text{NaO}_2$
 - b) $2\text{Na} + \text{O} \rightarrow \text{Na}_2\text{O}$
 - c) $\text{Na}_2 + \text{O}_2 \rightarrow \text{Na}_2\text{O}_2$
 - d) $4\text{Na} + \text{O}_2 \rightarrow 2\text{Na}_2\text{O}$
- 9) What happens when calcium carbonate is strongly heated?
- a) Calcium oxide and carbon dioxide are formed.
 - b) Carbon monoxide is formed.
 - c) Calcium hydroxide is formed.
 - d) Quick lime is formed.
- 10) What is the molecular formula of "king of chemicals"?
- a) HNO_3
 - b) HCl
 - c) H_2CO_3
 - d) H_2SO_4

"Best of Luck"