



ST. LAWRENCE HIGH SCHOOL



A JESUIT CHRISTIAN MINORITY INSTITUTION

- **Subject** Physical science _____ **Answers of Worksheet- 7** **Class 7**
- **Date** 18.05.2020
- **Chapter** : Atoms, Molecules and Radicals
- **Answer the following questions (MCQ) :** **(1×15)**

• Question1

Q. What is the empirical formula of the following molecular formula: C_3H_6

answer choices



Answer CH_2

Question2

Q. What is the molecular formula if the empirical formula is C_2H_5 and the molecular molar mass is 58.14 g/mol?

answer choices



Answer C_4H_{10}

Question 3

Q. What is the empirical formula for the following molecular formula: C_6H_{14}

answer choices



Answer C_3H_7

• Question 4

Q. What is the molecular formula if the empirical formula is CH_2O and the molecular molar mass is 180.18?

answer choices



Answer $\text{C}_6\text{H}_{12}\text{O}_6$

Question 5

Q. What is the empirical formula for the following molecular formula: C_5H_{12}

answer choices



Answer C_5H_{12}

Question 6

Q. Which pair has the same empirical formula?

answer choices



Answer $\text{C}_2\text{H}_4\text{O}_2$ and $\text{C}_6\text{H}_{12}\text{O}_6$

Question 7

Q. A 4.50g sample of which of the following would have the greatest mass of oxygen?

answer choices



Answer Li_2O (molar mass = 30g/mol)

Question 8

Q. A compound is determined to contain 14g of nitrogen and 32g of oxygen. The empirical formula of the compound is:

answer choices

NO

NO_2

N_2O

NO_3

Answer NO_2

- Question 9

Q. How many moles of carbon are in 88g of propane, C_3H_8 .

answer choices

2.0

16.0

6.0

96.0

Answer 6.0

- Question 10

Q. $2\text{H}_2\text{O}$

How many H_2O molecules are present?

answer choices

1

4

2

8

Answer 2

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- Question 11

Q. What do we call a chemical substance made up of **2 or more different types atoms** bonded together?

answer choices

formula

atom

subscript

compound

Answer subscript

Question 1 2

Q. All _____ are made up of two or more atoms bonded together.

answer choices

atoms

molecules

electrons

elements

Answer molecules

Question 13

Q. Bonds between atoms in a molecule form as a result of the sharing of?

answer choices

formulas

electrons

atoms

chemicals

Answer atoms

Question 14

Q. A recipe for a chemical substance is called a _____.

answer choices

coefficient

chemical formula

Oxygen

Atom

Answer chemical formula

Question 1 5

Q. H_2O_2 ← ?

This number tells the number of atoms present.

answer choices
coefficient

molecule

subscript

atom

Answer subscript

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