



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 04.07.20

Duration: 40 min

Worksheet Solutions 55

Full Marks: 15

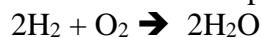
LANGUAGE OF CHEMISTRY

Choose the Correct options:

1. What does the Law of Conservation of Mass state?

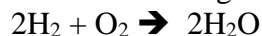
- (a) **Matter cannot be gained or lost in a chemical reaction.**
- (b) Matter can only be lost in a chemical reaction.
- (c) Matter can be gained and lost in a chemical reaction.

2. What is the left part of a chemical equation called?



- (a) **Reactants**
- (b) Products
- (c) Yields

3. What is the right part of a chemical equation called...



- (a) Reactants
- (b) **Products**
- (c) Yields

4. What is the total number of atoms present in $5\text{Na}_3\text{PO}_4$

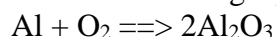
- (a) 5
- (b) **40**
- (c) 8

5. How many Mn atoms are found in the following compound?



- (a) 3
- (b) 6
- (c) **18**

6. Is the following equation balanced?...

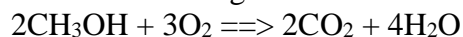


- (a) Yes!
- (b) **No!**
- (c) Incomplete.

7. How many elements are in $\text{C}_6\text{H}_{12}\text{O}_6$?

- (a) 1
- (b) 2
- (c) **3**

8. Is the following reaction balanced?



- (a) **Yes!**
- (b) No!
- (c) Incomplete.

9. Which of the following equations are correctly balanced?

- (a) $12\text{CO}_2 + \text{H}_2\text{O} \Rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$
- (b) $\text{CO}_2 + \text{H}_2\text{O} \Rightarrow 3\text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$
- (c) **$6\text{CO}_2 + 6\text{H}_2\text{O} \Rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$**

10. In which of these compounds are there twice as many oxygen atoms as hydrogen atoms?

- (a) H_3PO_4

(b) **H₂SO₄**

(c) HClO₃

11. How many atoms are in the neurotransmitter serotonin? The formula for serotonin is C₁₀H₁₂N₂O

(a) 20

(b) **25**

(c) 23

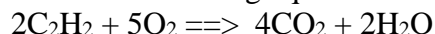
12. What information could a student determine from only the chemical formula of a protein?

(a) The number of molecules in each sequence of the protein

(b) The physical arrangement of atoms in the structure of the protein

(c) **The number of atoms of each element in the protein**

13. Is the following equation balanced?

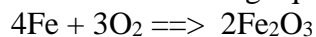


(a) **Yes!**

(b) No!

(c) Incomplete.

14. Is the following equation balanced?

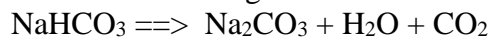


(a) **Yes!**

(b) No!

(c) Incomplete.

15. Is the following reaction balanced?



(a) Yes!

(b) **No!**

(c) Incomplete.