



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 06.07.20

Duration: 40 min

Worksheet Solutions 56

Full Marks: 15

LANGUAGE OF CHEMISTRY

Choose the Correct options:

1-The reactants are written on the

- (A) **left hand side**
- (B) right hand side
- (C) middle
- (D) any of the above

2- The products are written on the

- (A) left hand side
- (B) **right hand side**
- (C) middle
- (D) any of the above

3-The chemical equation is balanced if

- (A) mass is same on both the sides of the equation
- (B) number of atoms of each element is same on both the sides of the sides
- (C) **both (A) and (B)**
- (D) none of the above

4-If the mass is not the same on both sides of the equation, such a chemical equation is a

- (A) dead chemical equation
- (B) **skeletal chemical equation**
- (C) Imperfect chemical equation
- (D) Improper chemical equation

5-Which of the following is a balanced chemical equation?

- (A) **$Zn + H_2SO_4 \rightarrow ZnSO_4 + H_2$**
- (B) $Zn + H_2SO_4 \rightarrow ZnSO_4 + 2H_2$
- (C) $Zn + H_2SO_4 \rightarrow 2ZnSO_4 + H_2$
- (D) $Zn + H_2SO_4 \rightarrow 2ZnSO_4 + 2H_2$

6-Which of the following(s) can be included in a chemical equation

- (A) Physical states
- (B) Temperature
- (C) Catalyst
- (D) **All of the above**

7-Chemical equations involve

- (A) the breaking of bonds
- (B) the making of bonds
- (C) **the breaking and making of bonds**
- (D) the shifting of bonds

8-A balanced chemical equation is in accordance with

- (A) Avogadro's law
- (B) Law of multiple proportion
- (C) Law of conservation of mass**
- (D) Law of gaseous volumes

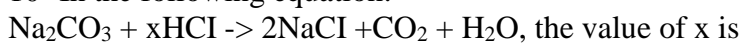
9- The equation



The values of x and y are

- (A) 3 and 5
- (B) 8 and 6
- (C) 4 and 2**
- (D) 7 and 1

10- In the following equation:



- (A) 1
- (B) 2**
- (C) 3
- (D) 4

11- In the balanced equation – $a\text{Fe}_2\text{O}_3 + b\text{H}_2 \rightarrow c\text{Fe} + d\text{H}_2\text{O}$ The value of a,b,c,d are respectively –

- (A) 1,1,2,3
- (B) 1,1,1,1
- (C) 1,3,2,3**
- (D) 1,2,2,3

12. Which of the following reactions is not balanced

- (A) $2\text{NaHCO}_3 \rightarrow \text{Na}_2\text{CO}_3 + \text{H}_2\text{O} + \text{CO}_2$
- (B) $2\text{C}_4\text{H}_{10} + 12\text{O}_2 \rightarrow 8\text{CO}_2 + 10\text{H}_2\text{O}$**
- (C) $2\text{Al} + 6\text{H}_2\text{O} \rightarrow 2\text{Al}(\text{OH})_3 + 3\text{H}_2$
- (D) $4\text{NH}_3 + 5\text{O}_2 \rightarrow 4\text{NO} + 6\text{H}_2\text{O}$

13. The equation – $\text{Cu} + x\text{HNO}_3 \rightarrow \text{Cu}(\text{NO}_3)_2 + y\text{NO}_2 + 2\text{H}_2\text{O}$ The values of x and y are

- (A) 3 and 5
- (B) 8 and 6
- (C) 4 and 2**
- (D) 7 and 1

14. Which of the following statements is correct

- (A) A chemical equation tells us about the substances involved in a reaction.
- (B) A chemical equation informs us about the symbols and formula of the substances involved in a reaction.
- (C) A chemical equation tells us about the atoms or molecules of the reactants and products involved in a reaction.
- (D) All are correct.**

15. In the reaction $x\text{Pb}(\text{NO}_3)_2 \xrightarrow{\text{Heat}} y\text{PbO} + z\text{NO}_2 + \text{O}_2$, x , y and z are –

(A) 1,1,2

(B) 2,2,4

(C) 1,2,4

(D) 4,2,2