ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Physical Science **Class: 8** **Date: 07.07.20**

Duration: 40 min **Worksheet Solution 57** **Full Marks: 15**

LANGUAGE OF CHEMISTRY

Choose the Correct options:

1- $KClO_3 \rightarrow KCl + 3O_2$

(A) **Is balanced**
(B) Not balanced
(C) Incomplete
(D) None of the above

2- $N_2 + H_2 \rightarrow 2NH_3$

(A) Is balanced
(B) **Not balanced**
(C) Incomplete
(D) None of the above

3- $Na_2CO_3 + HCl \rightarrow NaCl + H_2O$

(A) Is balanced
(B) Not balanced
(C) **Incomplete**
(D) None of the above

4- $2Mg + O_2 \rightarrow 2MgO$

(A) **Is balanced**
(B) Not balanced
(C) Incomplete
(D) None of the above

5- $2C + O_2 \rightarrow 2CO_2$

(A) Is balanced
(B) **Not balanced**
(C) Incomplete
(D) None of the above

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 reactions 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
$xMg + CO_2 \rightarrow yMgO + C$
The values of x and y are
(A) 3 and 5
(B) 2 and 6
(C) 2 and 2
(D) 3 and 2

10- In the following equation:
$H_2 + Cl_2 \rightarrow xHCl$, the value of x is
(A) 1
(B) 2
(C) 3
(D) 4

11- In the balanced equation $aNa_2CO_3 + bHCl \rightarrow cNaCl + dH_2O + eCO_2$
–The value of a,b,c,d,e are respectively –
(A)1,1,2,3,2
(B) 1,2,2,1,1
(C) 1,3,2,3,2
(D) 1,2,2,3,1

12-Which of the following reactions is balanced
(A) $NaHCO_3 \rightarrow Na_2CO_3, + H_2O + CO_2$
(B) $2C_4H_{10} + 12O_2 \rightarrow 8CO_2 + 10H_2O$
(C) $2Al + 4H_2O \rightarrow 2Al(OH)_3 + 3H_2$
(D) **$4NH_3 + 5O_2 \rightarrow 4NO + 6H_2O$**

13-The equation – $xH_2 + O_2 \rightarrow yH_2O$ The values of x and y are
(A) 3 and 5
(B) 4 and 6
(C) **2 and 2**
(D) 7 and 5

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 $xPb(NO_3)_2 \rightarrow yPbO + zNO_2 + O_2$ x,y and z are –
(A) 1,1,2
(B) **2,2,4**
(C) 1,2,4
(D) 4,2,2