



ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION



Sub: Physical Science

Class: 8

Date: 07.07.20

Duration: 40 min

Worksheet Solution 57

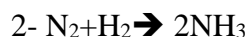
Full Marks: 15

LANGUAGE OF CHEMISTRY

Choose the Correct options:



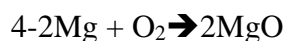
- (A) **Is balanced**
- (B) Not balanced
- (C) Incomplete
- (D) None of the above



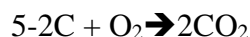
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- (D) None of the above



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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**

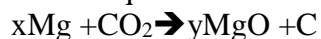
7- Chemical reactions involve

- (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

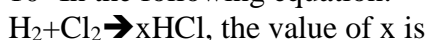
9- The equation



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:



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

11- In the balanced equation $a\text{Na}_2\text{CO}_3 + b\text{HCl} \rightarrow c\text{NaCl} + d\text{H}_2\text{O} + e\text{CO}_2$

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

13-The equation $x\text{H}_2 + \text{O}_2 \rightarrow y\text{H}_2\text{O}$ 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 $x\text{Pb}(\text{NO}_3)_2 \rightarrow y\text{PbO} + z\text{NO}_2 + \text{O}_2$ x,y and z are –

(A) 1,1,2

(B) **2,2,4**

(C) 1,2,4

(D) 4,2,2