## ST. LAWRENCE HIGH SCHOOL

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#### A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub: Physical Science Class: 8 Date: 03.07.20 Duration: 40 min Worksheet 54 Full Marks: 15 LANGUAGE OF CHEMISTRY

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### **Choose the Correct options:**

- 1. In a chemical equation, on what side of the arrow are the reactants?
  - (a) Left
  - (b) right
  - (c) Above
  - (d) Below
- 2. In a chemical equation, on what side of the arrow are the products?
  - (a) Left
  - (b) right
  - (c) Above
  - (d) Below
- 3. Which of the following can be changed to balance a chemical equation?
  - (a) Products
  - (b) Element
  - (c) coefficients
  - (d) subscripts
- 4. A chemical equation is balanced when the number of each type of \_\_\_\_\_\_ is the same on both sides of the yield sign.
  - (a) Compound
  - (b) molecule
  - (c) formula
  - (d) atom
- 5. Which of the following equations is balanced?
  - (a)  $2H_2 + O_2 ---> H_2O$
  - (b)  $H_2 + 2O_2 ---> 2H_2O$
  - (c)  $H_2 + O_2 ---> H_2O$
  - (d)  $2H_2 + O_2 ---> 2H_2O$
- 6. What does the arrow in a chemical equation mean?
  - (a) Matches
  - (b) Yields
  - (c) equals
  - (d) mixes
- 7. Which of the following describes the law of conservation of mass?
  - (a) Reactants + Products = 100%
  - (b) Matter (mass) cannot be created or destroyed in ordinary chemical and physical changes, but it can change form
  - (c) Mass of products does not equal mass of reactants
  - (d) Matter (mass) can be created or destroyed in certain chemical reactions.
- 8. Which coefficient will balance the following equation?

$$Zn + \underline{\hspace{1cm}} HCl \longrightarrow ZnCl_2 + H_2$$

- (a) 2
- (b) 6
- (c) 4
- (d) 3

- 9. Which coefficient will balance the following equation?
- $Ca + N_2 \rightarrow Ca_3N_2$ 
  - (a) 6
  - (b) 3
  - (c) 1
  - (d) 2
- 10. What is a coefficient?
  - (a) The large number to the left of a chemical formula.
  - (b) The small number on the right of the chemical symbol.
  - (c) The small number on the left of a chemical symbol
  - (d) The large number at the end of a chemical formula
- 11. Which chemical equation is balanced?
  - (a)  $Li + F_2 \rightarrow 3LiF$
  - (b)  $2Li + F_2 \rightarrow LiF$
  - (c)  $2Li + F_2 \rightarrow 2LiF$
  - (d)  $2Li + F_2 \rightarrow 3LiF$
- 12. How many atoms of aluminum are on each side of the yield sign in the following equation?
- $4Al + 3O_2 --> 2Al_2O_3$ 
  - (a) 2
  - (b) 6
  - (c) 1
  - (d) 4
- 13. Is the following equation balanced or unbalanced?
- $Fe + S \longrightarrow FeS$ 
  - (a) Balanced
  - (b) Unbalanced
  - (c) Incomplete
  - (d) None of these
- 14. Which of the following is the correct balanced equation for the unbalanced equation shown?

- (a)  $2H_2 + Cl_2 --> 4HCl$
- (b)  $H_2 + Cl_2 --> 2HCl$
- (c)  $3H_2 + 3Cl_2 --> HCl$
- (d)  $3H_2 + Cl_2 --> 3HCl$
- 15. Balance this equation:

$$Al_2O_3 -> Al + O_2$$

- (a)  $2Al_2O_3 -> 2Al + 3O_2$
- (b)  $2Al_2O_3 -> 4Al + 3O_2$
- (c)  $3Al_2O_3 -> 2Al + O_2$
- (d)  $2Al_2O_3 -> 3Al + 2O_2$