Sub: Physical Science   **Class: 8**   **Date: 07.07.20**
Duration: 40 min   **Worksheet 57**   **Full Marks: 15**

LANGUAGE OF CHEMISTRY
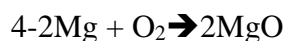
Choose the Correct options:
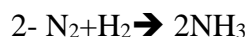
1- $KClO_3 \rightarrow KCl + 3O_2$
(A) Is balanced
(B) Not balanced
(C) Incomplete
(D) None of the above

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
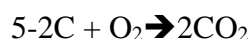
5- $2C + O_2 \rightarrow 2CO_2$
(A) Is balanced
(B) Not balanced
(C) Incomplete
(D) None of the above

6-Which of the following(s) can be included in a chemical equation
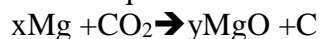(A) Physical states
(B) Temperature
(C) Catalyst
(D) All of the above

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

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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

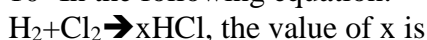9- The equation
$xMg + CO_2 \rightarrow yMgO + C$
The values of x and y are
(A) 3 and 5
(B) 2 and 6
(C) 2 and 2
(D) 3 and 2

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

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