Welland Gouldsmith School ,Patuli
Class- IX
Chemistry Worksheet
Session 2020-21

1.Balance the following equations: -

a. $Fe + HCl \text{ -----> } FeCl_2 + H_2$
b. $Mg_3N_2 + H_2O \text{ -----> } Mg(OH)_2 + NH_3$
c. $S + H_2SO_4 \text{ ------> } SO_2 + H_2O$
d. $ZnS + O_2 \text{ ------> } ZnO + SO_2$
e. $Pb(NO_3)_2 + NaCl \text{ -----> } NaNO_3 + PbCl_2$

2.Fill in the blanks: -

a.Variable valency is exhibited since electrons are lost from an element from the _____ shell.
b.The valency of bicarbonate ion is _____.
c.An example of trivalent element is _____.
d._____ exhibits a valency of +1 and +2.

3.Explain the meaning of the term compound with suitable example. State the main characteristics of a compound with special reference to the compound Iron(II) sulphide.

4.Write the formula of the following compounds :

a.Magnesium Nitrate
b.Aluminium Carbonate
c.Lead Sulphate
d.Sodium Bisulphite

5.Write the names of the followings compounds:-

i).Ca_3N_2

ii).$Ca_3(PO_4)_2$

iii).$NaClO_3$

iv).$Mg(HCO_3)_2$

6.Calculate the molecular weight of calcium sulphate.

(atomic weights :-Ca=40,S=32,O=16).

7.Calculate the percentage composition of potassium phosphate.

(atomic weights:-K=40,P=31,O=16)