

- Symbol for silver is:
(A) Ar (B) Al (C) Ag (D) Au
- Formula of calcium phosphate is:
(A) CaPO_4 (B) $\text{Ca}_3(\text{PO}_4)_2$ (C) $\text{Ca}_2(\text{PO}_4)_3$ (D) Ca_3P_2
- Sulphide ion is:
(A) SO_4^{2-} (B) SO_3^{2-} (C) HS^- (D) S^{2-}
- Formula of ammonium oxalate is:
(A) $(\text{NH}_4)_2\text{CO}_3$ (B) $(\text{NH}_4)_2\text{C}_2\text{O}_4$ (C) $(\text{NH}_4)_2\text{SO}_4$ (D) $(\text{NH}_4)_3\text{PO}_4$
- Nitrate ion has _____ oxygen atoms in it:
(A) 1 (B) 2 (C) 3 (D) 4
- Which four given numbers a, b, c, d, are required to balance the equation?
 $a\text{Al}(\text{OH})_3 + b\text{HCl} \rightarrow c\text{AlCl}_3 + d\text{H}_2\text{O}$
(A) 2,3,2,3 (B) 1,3,1,3 (C) 1,6,2,6 (D) 2,6,2,3
- $x\text{KClO}_3 \rightarrow y\text{KCl} + z\text{O}_2$. The value of $(y + z) - x =$ _____
(A) 3 (B) 4 (C) 5 (D) 6
- Molecular mass of CH_4 and CaCO_3 are respectively:
(A) 16 and 100 (B) 100 and 16 (C) 8 and 50 (D) 50 and 8
- Ozone formulae is:
(A) O_2 (B) O_3 (C) O_2^- (D) O_2^-
- Identify the homoatomic molecule:
(A) H_2O (B) CO_2 (C) NH_3 (D) P_4
- Find the mass of glucose ($\text{C}_6\text{H}_{12}\text{O}_6$):
(A) 90 (B) 98 (C) 180 (D) 172
- $m\text{Pb}(\text{NO}_3)_2 \rightarrow n\text{PbO} + p\text{NO}_2 + q\text{O}_2$. The value of m,n,p,q are:
(A) 2,2,4,1 (B) 4,2,2,1 (C) 4,4,2,1 (D) 1,1,2,4
- Ferrous hydroxide is:
(A) $\text{Fe}(\text{OH})_3$ (B) $\text{Fe}(\text{OH})_2$ (C) Fe_2O_3 (D) FeO
- Latin name of lead is:
(A) Stannum (B) Wolfram (C) Stibium (D) Plumbum
- Cupric ion valency is:
(A) 1 (B) 2 (C) 3 (D) 4
- Latin name and symbol of antimony is:
(A) Plumbum–Pb (B) Wolfram–W (C) Stannum–Sn (D) Stibium–Sb

17. CO_2 when passed through lime water, it turns milky due to formation of X when excess of CO_2 is passed the milkiness disappeared due to formation of Y. Identify X and Y.
- (A) X – CaCO_3
Y – $\text{Ca}(\text{OH})_2$ (B) X – CaCO_3
Y – $\text{Ca}(\text{HCO}_3)_2$ (C) X – $\text{Ca}(\text{OH})_2$
Y – $\text{Ca}(\text{HCO}_3)_2$ (D) X – $\text{Ca}(\text{HCO}_3)_2$
Y – $\text{Ca}(\text{OH})_2$
18. Balancing of the following equation and mark the option which gives correct answer of the respective coefficients as per stoichiometry.
- $$\text{Cu} + \text{HNO}_3 \rightarrow \text{Cu}(\text{NO}_3)_2 + \text{NO} + \text{H}_2\text{O}$$
- (A) 3, 8, 3, 2, 4 (B) 3, 4, 3, 1, 2 (C) 8, 3, 4, 4, 2 (D) 8, 4, 3, 2, 4
19. Balance the following equation and answer the following:
 $a\text{Al}_2\text{O}_3 + b\text{NaOH} \rightarrow c\text{NaAlO}_2 + d\text{H}_2\text{O}$. What will be the value of a+b+c+d?
- (A) 1 (B) 3 (C) 5 (D) 7
20. What will be the change in the valency of one atom of 'Fe' from reactants to the products as per the equation $\text{Fe}_2\text{O}_3 + 2\text{Al} \rightarrow 2\text{Fe} + \text{Al}_2\text{O}_3$?
- (A) +3 to –3 (B) –3 to 0 (C) 0 to –3 (D) +3 to 0

* *Wish You^{est} all the Best* *