

# H.H.W For Class XI Science

## (Chemistry)

1. State the following
  - a) Law of conservation of mass
  - b) Law of constant composition
  - c) Law of multiple proportion
2. Write the differences between
  - a) Compound and Mixture
  - b) Homogeneous and Heterogeneous mixture

### Practice Problems:-

1. 10.1g of HCl is mixed with 6.3g of  $\text{NaHCO}_3$ . Calculate the mass of  $\text{CO}_2$  released if the residual mixture is found to weigh 12.1g.
2. On analysis it was found that the black oxide of copper contain 79.9% and 88.8% of copper respectively. Show that this data is in accordance with law of multiple proportions.
3. Mass of Copper Oxide obtained by treating 2.16g of metallic copper with  $\text{HNO}_3$  and subsequent ignition was 2.70g. In another experiment 1.15g of copper oxide on reduction yielded 0.92g of copper. Show that these results illustrates the law of constant composition.