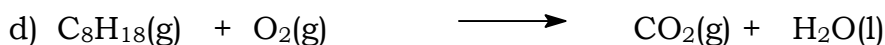
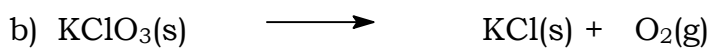
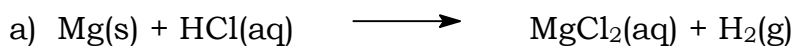
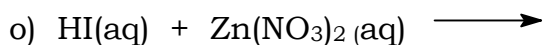
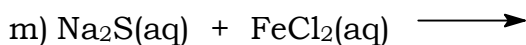
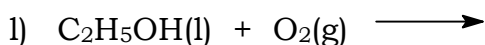
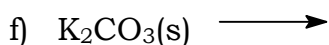
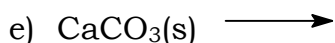
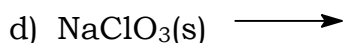
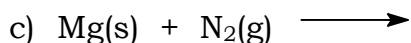
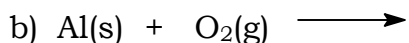
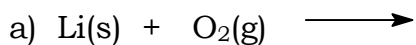


CHEM-1105**CHEMICAL REACTIONS**

1) Balance the following reactions:



2) Complete and balance the following reactions:



3) Write balanced equations to represent the following reactions:

a) Benzene, C_6H_6 , burns in air.

b) Calcium carbide, CaC_2 , reacts with water to give calcium hydroxide and acetylene, C_2H_2 .

c) Aluminum dissolves in sodium hydroxide solution with the release of hydrogen gas and the formation of sodium aluminate, Na_3AlO_3 .

d) Sodium hydroxide reacts with atmospheric $CO_2(g)$ to form sodium carbonate and water.

4) Write the net ionic equations for reactions of **1 a** and **2 (g, h, i, j, k, m, and n)**