Chemistry 0 Week 11 HW Assigned on 12/13/2020 Due date: 12/19/2020

- 1. Please count the atoms for the following compounds:
 - $\begin{tabular}{ll} a. & NH_3 \\ \begin{tabular}{ll} \textbf{One nitrogen atom and three hydrogen atoms.} \end{tabular}$
 - b. H₂O
 - c. C_3H_8
 - d. K₂CO₃
 - e. Ca(OH)₂
 - f. $Mg_3(PO_4)_2$
 - g. 4 H₂O
 - h. 5 Al₂O₃
 - i. $8 C_2H_5OH$
 - j. $3(NH_4)_2SO_4$

2. Please balance the following chemical equations by **showing the steps:**

a. NO+
$$O_2 \rightarrow NO_2$$

b. Fe+
$$\text{Cl}_2 \rightarrow \text{FeCl}_3$$

c.
$$C + H_2 \rightarrow C_5 H_{12}$$

d. Fe+
$$H_2O \rightarrow Fe_3O_4 + H_2$$

e.
$$C_6H_{14} + O_2 \rightarrow CO_2 + H_2O$$