CHE 111 - Homework - Ch 7a

OER 7.1 **General Chemical Reactions + Balancing Reactions** Score: _____/20

Name: _____ Date: _____

[20 pt] 1. Balance the following reactions.

(a) $__MnO_2 + __CO \longrightarrow __Mn_2O_3 + __CO_2$ 1(a) _____

(b) $__Mg_3N_2 + __H_2O \longrightarrow __Mg(OH)_2 + __NH_3$ 1(b) _____

(c) $__C_3H_5(NO_3)_3 \longrightarrow __CO_2 + __H_2O + __N_2 + __O_2$ 1(c) _____

(d) $__FeS + __O_2 \longrightarrow __Fe_2O_3 + __SO_2$ 1(d) _____

(e) $__Cu(NO_3)_2 \longrightarrow __CuO + __NO_2 + __O_2$ 1(e) _____

(f) $__C_2H_6 + __O_2 \longrightarrow __CO_2 + __H_2O$ 1(f) _____

(g) $__Al + __H_2SO_4 \longrightarrow __Al_2(SO_4)_3 + __H_2$ 1(g) _____

(h) $__HCN + __O_2 \longrightarrow __N_2 + __CO_2 + __H_2O$ 1(h) _____

(i) $__B_5H_9 + __O_2 \longrightarrow __B_2O_3 + __H_2O$ 1(i) _____

(j) $__(NH_4)_3PO_4 + __Ni(NO_3)_2 \longrightarrow __NH_4NO_3 + __Ni_3(PO_4)_2$ 1(j) _____