Complete the following reactions. Circle the most favored products.

2.
$$+ \text{ KMnO}_4 + \text{H}_2\text{O} \rightarrow$$

$$3.$$
 \longrightarrow + HCl \longrightarrow

10.
$$+ Cl_2 \rightarrow$$

12.
$$CH_4 + O_2 \longrightarrow$$

$$16. \ \ + \ \ \text{Cl}_2 \quad \longrightarrow \quad$$

22.
$$+ H_2(g) \rightarrow$$

CHE102 - Extra Practice E1 - S18 - Ver. 5

Question 1:
$$__{CO_2}(g) + __{H_2O}(g) + Heat$$
 Balance: $(1,9,6,6)$

Question 2:
$$OH + MnO_2 + KOH$$

Question 3:
$$H_2(g)$$
 + CI + CI + CI

Question 4:
$$\underline{}$$
 co₂ (g) + $\underline{}$ H₂O (g) + Heat Balance: $(2,17,12,10)$

Question 9:
$$\underline{}$$
 co₂ (g) + $\underline{}$ H₂O (g) + Heat Balance: $(1,10,7,6)$

Question 10: HCl +
$$\begin{pmatrix} Cl \\ + \end{pmatrix} \begin{pmatrix} Cl \\ + \end{pmatrix} \begin{pmatrix}$$

Question 11:
$$+HO$$
 $=O$

Question 12:
$$_{\text{CO}_2}$$
 (g) + $_{\text{H}_2}$ O (g) + Heat Balance: $(1,2,1,2)$

Question 15:
$$_{--}$$
CO $_{2}$ (g) + $_{---}$ H $_{2}$ O (g) + Heat Balance: $(1,6,4,4)$

CHE102 - Extra Practice - E1 - Exam 1 - S18 - Ver. 5

Question 19:
$$H_2(g)$$
 + CI + CI

Question 21:
$$_{\text{co}_2}$$
 (g) + $_{\text{H}_2}$ O (g) + Heat Balance: $(2,13,8,10)$

Question 23:
$$_{co_2}(g) + _{h_2}(g) + _{h_2}(g) + _{h_3}(g) + _{h_4}(g) + _{$$

Question 24:
$$H_2(g)$$
 + CI + CI + CI + CI

Question 25:
$$H_2(g)$$
 + OH + OH + OH + OH