Complete the following reactions. Circle the most favored products.

$$2. \hspace{1cm} + \hspace{1cm} \operatorname{Cl}_2 \hspace{1cm} \longrightarrow \hspace{1cm}$$

3. 
$$+ \text{ Cl}_2 \longrightarrow$$

4. 
$$CH_4$$
  $\frac{500 \text{ K}}{\Delta}$ 

$$6.$$
 +  $\mathrm{Cl_2}$   $\longrightarrow$ 

7. 
$$\rightarrow$$
 Cl<sub>2</sub>  $\rightarrow$ 

$$9.$$
  $+$   $\text{Cl}_2$   $\longrightarrow$ 

10. 
$$CI$$
  $500 \text{ K}$ 

13. 
$$+ H_2O \longrightarrow$$

$$15.$$
  $\longrightarrow$   $+$  HCl  $\longrightarrow$ 

$$17.$$
 + HCl  $\rightarrow$ 

$$20.$$
 + HCI  $\rightarrow$ 

## CHE102 - Extra Practice C19 - S18 - Ver. 2

Question 4: No Reaction

Question 5: 
$$\underline{\hspace{0.2cm}}$$
 CO<sub>2</sub> (g) +  $\underline{\hspace{0.2cm}}$  H<sub>2</sub>O (g) + Heat Balance:  $(2,19,12,14)$ 

Question 8: 
$$+ H_2(g)$$

Question 11: 
$$_{-}$$
 co<sub>2</sub> (g) +  $_{-}$  H<sub>2</sub>O (g) + Heat Balance:  $(1,5,3,4)$ 

Question 12: 
$$H_2(g)$$
 +  $OH$  +  $OH$ 

Question 13: 
$$H_2(g)$$
 + OH

Question 15: 
$$H_2(g)$$
 +  $CI$  +  $CI$  +  $CI$ 

Question 17: 
$$H_2(g)$$
 + CI + CI

Question 20: 
$$H_2(g)$$
 +  $C_1$  +  $C_1$  +  $C_2$  +  $C_3$  +  $C_4$