Complete the following reactions. Circle the most favored products.

1.
$$\rightarrow$$
 + H₂O \rightarrow

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

$$5. \quad \begin{array}{c} \text{OH} \\ \hline \\ \hline \\ \Delta \end{array}$$

$$7.$$
 \leftarrow $+$ Cl_2 \longrightarrow

10.
$$CH_4$$
 $\frac{500 \text{ K}}{\Delta}$

$$^{11.}$$
 $^+$ HCI \rightarrow

12.
$$+$$
 HCI \rightarrow

14.
$$\rightarrow$$
 + H₂O \rightarrow

$$15.$$
 + HCl \rightarrow

18.
$$+ Cl_2 \longrightarrow$$

$$^{21.}$$
 + HCI \longrightarrow

22.
$$\leftarrow$$
 + Cl_2 \rightarrow

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Question 1:
$$H_2(g)$$
 + OH + OH

Question 3:
$$+ H_2O$$

Question 4:
$$CO_2(g) + H_2O(g) + Heat$$
 Balance: $(2,9,6,6)$

Question 8:
$$_CO_2$$
 (g) + $_H_2O$ (g) + Heat Balance: $(2,13,8,10)$

Question 9:
$$__{CO_2}$$
 (g) + $__{H_2O}$ (g) + Heat Balance: $(1,8,5,6)$

${\it Question} \ 10:$ No Reaction

Question 11:
$$H_2(g)$$
 + CI + CI

Question 12:
$$H_2(g)$$
 + C_1 + C_1 + C_2 + C_3 + C_4 + C_4

Question 14:
$$H_2$$
 (g) + OH + OH OH

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

Question 16: No Reaction

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Question 19:
$$_{\text{co}_2}$$
 (g) + $_{\text{H}_2}$ O (g) + Heat Balance: $(1,5,3,4)$

Question 20:
$$_{--}$$
 co₂ (g) + $_{---}$ H₂O (g) + Heat Balance: $(1,4,3,2)$

Question 21:
$$H_2(g)$$
 + CI

Question 22: HCl +
$$\begin{pmatrix} Cl \\ + \end{pmatrix} \begin{pmatrix} Cl \\ + \end{pmatrix} \begin{pmatrix}$$