Complete the following reactions. Circle the most favored products.

$$4.$$
 \leftarrow \leftarrow \leftarrow \leftarrow \leftarrow

5.
$$CI \qquad \frac{500 \text{ K}}{\Delta}$$

$$6.$$
 \leftarrow $+$ Cl_2 \longrightarrow

$$9.$$
 \leftarrow + HCI \longrightarrow

$$12.$$
 + HCl \rightarrow

$$14.$$
 + HCI \rightarrow

15.
$$CI$$
 500 K

17.
$$+$$
 HCI \rightarrow

19.
$$\mathbf{CH_4}$$
 + $\mathbf{CI_2}$ \longrightarrow

$$22.$$
 + HCl \rightarrow

24. OH
$$\frac{500\,\mathrm{K}}{\Delta}$$

$$25.$$
 $+$ Cl_2 \rightarrow

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Question 7:
$$+ H_2(g)$$

Question 8:
$$_{co_2(g)+}$$
 $_{H_2O(g)+Heat}$ Balance: $(2,11,8,6)$

Question 9:
$$H_2(g)$$
 + C

Question 10:
$$__{CO_2}$$
 (g) + $__{H_2O}$ (g) + Heat Balance: $(2,21,14,14)$

Question 12:
$$H_2(g)$$
 + \downarrow CI + \downarrow CI

Question 13:
$$_{--}$$
 co₂ (g) + $_{--}$ H₂O (g) + Heat Balance: $(1,9,6,6)$

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

Question 16: ___CO_2 (g) + ___ H_2O (g) + Heat Balance:
$$(2,5,4,2)$$

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

Question 18: No Reaction

Question 19: HCI +-CI

Question 20: + HCI

Question 21: + HCI

Question 22: $H_2(g)$ + CI + CI

 $\label{eq:Question 23: Lagrangian} \ \ \, \underline{\hspace{0.3cm}} \ \, \mathsf{co}_{\scriptscriptstyle 2} \, (\mathsf{g}) + \underline{\hspace{0.3cm}} \ \, \mathsf{H}_{\scriptscriptstyle 2} \mathsf{O} \, (\mathsf{g}) + \mathsf{Heat} \quad \mathsf{Balance:} \ \, (1,3,2,2)$

Question 25: HCI + CI + CI + CI + CI CI