Complete the following reactions. Circle the most favored products.

$$2. \qquad \text{CI} \qquad \frac{500 \, \text{K}}{\Delta}$$

11.
$$CI$$
 $\frac{500 \text{ K}}{\Delta}$

15.
$$\leftarrow$$
 + Cl_2 \rightarrow

17.
$$CH_4 + H_2O \longrightarrow$$

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

$$24.$$
 + HCl \rightarrow

CHE102 - Extra Practice C19 - S18 - Ver. 3

Question 1:
$$_{--}$$
CO $_{2}$ (g) + $_{---}$ H $_{2}$ O(g) + Heat Balance: $(1,3,2,2)$

Question 8: No Reaction

Question 9:
$$__{CO_2}(g) + __{H_2O}(g) + Heat$$
 Balance: $(2,7,4,6)$

Question 12:
$$+ H_2O$$

Question 14:
$$_{--}$$
CO $_{2}$ (g) + $_{---}$ H $_{2}$ O(g) + Heat Balance: $(1,6,4,4)$

Question 15:
$$HCI$$
 + CI + CI + CI + CI + CI

Question 16:
$$_{--}$$
 co₂ (g) + $_{--}$ H₂O (g) + Heat Balance: $(1,5,3,4)$

CHE102 - Extra Practice - C19 - Alkanes - S18 - Ver. 3

Question 17:
$$H_2(g)$$
 + $-\circ$

Question 18:
$$__{CO_2}$$
 (g) + $__{H_2O}$ (g) + Heat Balance: $(2,11,8,6)$

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

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

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

Question 23:
$$_{co_2}$$
 (g) + $_{H_2}$ O (g) + Heat Balance: $(2,17,12,10)$

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