Complete the following reactions. Circle the most favored products.

2.
$$+ NH_3 \xrightarrow{[-H_2O]}$$

3.
$$+ H_2O \rightarrow$$

4.
$$H_2/Ni$$

$$5.$$
 + HCI \rightarrow

8.
$$+ H_2O \rightarrow$$

$$9.$$
 + HCl \rightarrow

10.
$$+ H_2O \rightarrow$$

11.
$$\xrightarrow{\mathsf{O}} \xrightarrow{\mathsf{H}_2/\mathsf{Ni}} \xrightarrow{\mathsf{A}}$$

12.
$$+ NH_3 \xrightarrow{[H_2O]}$$

$$15.$$
 \longrightarrow + NaOH \longrightarrow

16.
$$+ H_2O$$
 [H+]

17.
$$+$$
 HCI \rightarrow

20.
$$H_2/Ni$$
 Δ

21.
$$+ H_2O \rightarrow$$

$$22. \ \, \overset{\text{HO}}{\longleftarrow} \ \, + \ \, \overset{\text{[-H_2O]}}{\longrightarrow} \ \,$$

$$^{25.}$$
 $\stackrel{\circ}{-}$ $^{+}$ NaOH \longrightarrow

Question 11:
$$H_2/Ni$$
 Δ

Question 12:
$$+ NH_3$$
 $\xrightarrow{[-H_2O]}$ $+ H_2O$

Question 13:
$$+ H_2O$$
 [H*] OH + OH

Question 15:
$$\longrightarrow$$
 + NaOH \longrightarrow \longrightarrow OH + \bigcirc ONa

Question 16:
$$+ H_2O$$
 H^* OH $+ OH$

Question 17:
$$+$$
 HCl \rightarrow $H_2(g)$ $+$ $+$ Cl $+$ Cl

Question 19:
$$\bigcirc$$
OH + \bigcirc OH $\underline{[H_2O]}$ + $\underline{H_2O}$

Question 20:
$$H_2/Ni$$
 Δ

Question 21:
$$+ H_2O \rightarrow H_2(g) + OH + OH + OH + OH$$

Question 22:
$$\stackrel{\text{HO}}{=}_{\text{O}}$$
 + $\stackrel{\text{--NH}}{\longrightarrow}$ $\stackrel{\text{[-H_2O]}}{\longrightarrow}$ $\stackrel{\text{--N}}{\longrightarrow}$ + $\stackrel{\text{--N}}{\longrightarrow}$ $\stackrel{\text{--N}}{\longrightarrow}$

Question 24:
$$+ NH_3$$
 $- H_2O$ $+ H_2O$

Question 25:
$$\longrightarrow$$
 + NaOH \longrightarrow OH + \bigcirc ÖNa