Complete the following reactions. Circle the most favored products.

4.
$$O \xrightarrow{H_2/Ni} \Delta$$

5.
$$+$$
 $-$ OH $\underbrace{[dry HCI]}$

6.
$$+$$
 -OH $[H^+]$

7.
$$\longrightarrow \bigcirc \longrightarrow \frac{H_2/Ni}{\Delta}$$

8.
$$+ 2 \text{ Ag}^+_{(aq)} + \text{NH}_{3(aq)} \xrightarrow{[0]}$$

9.
$$\longrightarrow$$
 + \longrightarrow \longrightarrow \longrightarrow \longrightarrow \longrightarrow

10.
$$\stackrel{\text{OH}}{\longrightarrow}$$
 $\stackrel{\text{[-H_2O]}}{\longrightarrow}$

12.
$$+$$
 -OH $\xrightarrow{\text{[dry HCI]}}$

13.
$$+ 2 \text{ Ag}^+_{(aq)} + \text{NH}_{3(aq)} \xrightarrow{[0]}$$

14.
$$\frac{H_2/Ni}{\Delta}$$

15.
$$\bigcirc$$
 + \bigcirc OH \longleftarrow [H+]

16.
$$\bigcirc$$
0 + \bigcirc 0 \bigcirc H⁺]

$$21. \qquad \stackrel{\mathsf{OH}}{\longrightarrow} \qquad \stackrel{[\mathfrak{0}]}{\longrightarrow} \qquad$$

$$22. \qquad \overbrace{\qquad \qquad \underbrace{\text{[-H_2O]}}}^{\text{OH}}$$

$$23. \qquad \underset{\mathsf{OH}}{\underbrace{\qquad \qquad \underset{|\mathsf{K}_2\mathsf{Cr}_2\mathsf{O}_7/\mathsf{H}_2\mathsf{SO}_4|}}} \\$$

${\it Question \ 1:} \ \ {\it No \ Reaction}$

Question 2:
$$^{\mathring{N}H_4\mathring{O}}$$
 +2 Ag (s) Visible Change: clear \longrightarrow Silver Mirror

Question 8:
$$^{\mathring{N}H_{4}\mathring{O}}$$
 +2 Ag $_{\{s\}}$ Visible Change: clear \longrightarrow Silver Mirror

Question 10:
$$+ H_2O$$

Question 11:
$$+ H_2O$$

Question 12:
$$+ H_2O$$

Question 13:
$$\longrightarrow$$
 $\mathring{\text{on}}$ +2 Ag (s) Visible Change: clear \longrightarrow Silver Mirror

Question 17: No Reaction

Question 19:
$$+ H_2O$$

Question 21:
$$+ H_2C$$

Question 23: No Reaction