Complete the following reactions. Circle the most favored products.

1. 
$$\rightarrow$$
 HCI  $\rightarrow$ 

$$2. \ \ \overset{\text{HO}}{\longleftarrow} \ \ + \ \ \overset{\text{\tiny [-H_2O]}}{\longrightarrow} \ \ \ \\$$

$$3.$$
  $\longrightarrow$  HCI  $\longrightarrow$ 

$$4. \qquad \text{OH} \qquad + \qquad \bigcirc \\ \text{OH} \qquad \xrightarrow{[\vdash H_2O]}$$

6. 
$$\downarrow$$
 OH +  $\downarrow$  OH  $\underbrace{[H_2O]}$ 

8. 
$$H_2/Ni$$

10. 
$$\bigcirc$$
OH +  $\bigcirc$ OH  $[-H_2O]$ 

11. 
$$N \xrightarrow{H_2/Ni} \Delta$$

12. 
$$+$$
 NaOH  $\rightarrow$ 

13. 
$$+ H_2O \longrightarrow$$

14. 
$$\downarrow 0$$
  $H_2/Ni$   $\Delta$ 

15. 
$$\rightarrow$$
 +  $\operatorname{SOCl}_2$   $\rightarrow$ 

16. OH 
$$+$$
 OH  $\underbrace{|H_2O|}_{OH}$ 

17. 
$$\rightarrow$$
 NH<sub>3</sub>  $\rightarrow$ 

18. 
$$_{\rm HN}^{\circ}$$
 + HCl + H<sub>2</sub>O  $\longrightarrow$ 

Question 2: 
$$HN$$
 +  $H_2O$ 

Question 3: 
$$\begin{array}{c} & & H \\ & & N^+ \\ & & H \end{array}$$
 Cl

Question 4: 
$$+ H_2O$$

Question 5: 
$$\longrightarrow$$
 OH  $+$   $\bigcirc$  ONa

Question 6: 
$$+ H_2O$$

Question 7: 
$$\begin{array}{c} \begin{array}{c} & \\ \\ \end{array}$$

Question 8: 
$$\downarrow N$$
  $+ H_2O$ 

Question 10: 
$$-$$
 +  $H_2O$ 

Question 11: 
$$^{NH_2}$$

Question 13: 
$$\begin{array}{c} \begin{array}{c} H \\ -N^{+}H \end{array} + OH^{-} \end{array}$$

Question 14: 
$$NH_2 + H_2O$$

Question 15: 
$$+ HCI + SO_2$$

Question 18: 
$$\downarrow^{\circ}$$
 +  $\downarrow^{\mathsf{H}}_{\mathsf{H}}$  Cl $^{\circ}$ 

Question 20: 
$$+ H_2O$$