Draw the constitutional structure of the major organic product formed in the following reactions.

\[
\begin{align*}
\text{Cl} & \quad \text{NaCN} \\
\text{Cl} & \quad \text{HCl}
\end{align*}
\]
• Draw in appropriate partial charges (δ⁺ and δ⁻) and curly arrows to show the mechanism of the following reaction. Classify the starting materials as nucleophile, electrophile or neither, indicating your choice in the appropriate box.

\[
\text{CH}_3\text{N-CH}_3 + \text{H-CH-Br} \rightarrow \text{CH}_3\text{N-CH}_3 \text{Br}^- 
\]
- Give the name of the starting material where indicated and the constitutional formula of the major organic product formed in each of the following reactions.

<table>
<thead>
<tr>
<th>Name:</th>
</tr>
</thead>
</table>
| \[
\begin{align*}
\text{Br} & \quad \begin{array}{c}
\text{CN} \\
\uparrow
\end{array} \\
\end{align*}
\] |

<table>
<thead>
<tr>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name:</th>
</tr>
</thead>
</table>
| \[
\begin{align*}
\text{Br} & \quad \begin{array}{c}
\text{conc. KOH / heat} \\
\text{ethanol solvent}
\end{array} \\
\end{align*}
\] |

<table>
<thead>
<tr>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
</tbody>
</table>