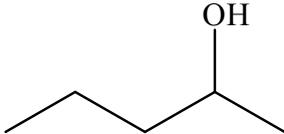
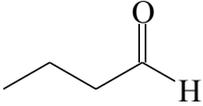
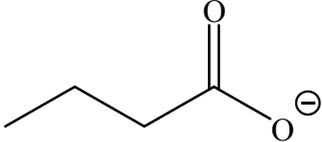


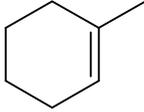
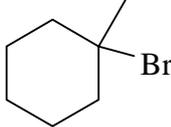
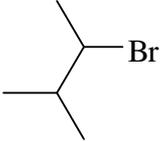
**Marks**  
**5**

- Complete the following table. Make sure you complete the name of the starting material where indicated.

STARTING MATERIAL NAME (where required)	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)
$\begin{array}{c} \text{CH}_3\text{CH}_2\text{CHCH}_2\text{CH}_3 \\   \\ \text{Br} \end{array}$ <p><b>Name: 3-bromopentane</b></p>	$\text{N}(\text{CH}_3)_3$	$\begin{array}{c} \text{CH}_3\text{CH}_2\text{CHCH}_2\text{CH}_3 \\   \\ \text{Br}^- \text{ } ^+\text{N}(\text{CH}_3)_3 \end{array}$
$\begin{array}{c} \text{O} \\    \\ \text{CH}_3\text{CH}_2\text{CH}_2-\text{C}-\text{CH}_3 \end{array}$ <p><b>Name: 2-pentanone</b></p>	1. $\text{LiAlH}_4$ / dry ether 2. $\text{H}^+$ / $\text{H}_2\text{O}$	
	$[\text{Ag}(\text{NH}_3)_2]^+$ / dil. $\text{OH}^-$	

**Marks**  
**4**

- Complete the following table. Make sure you complete the name of the starting material or major product where indicated.

STARTING MATERIAL	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)
	HBr / CCl <sub>4</sub> (solvent)	
$\text{CH}_3\text{CH}_2\underset{\text{Br}}{\text{CH}}\text{CH}_2\text{CH}_3$ <p><b>Name: 3-bromopentane</b></p>	(CH <sub>3</sub> ) <sub>3</sub> N	$\text{CH}_3\text{CH}_2\underset{\text{Br}^-}{\overset{\oplus}{\text{N}}(\text{CH}_3)}\text{CH}_2\text{CH}_3$
	hot conc. KOH in ethanol solvent	