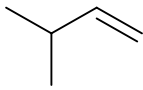
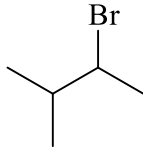
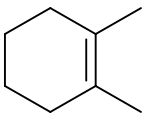
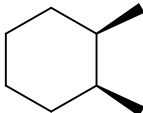
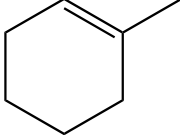
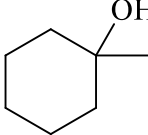
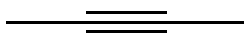
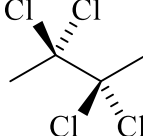


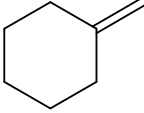
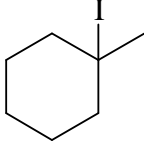
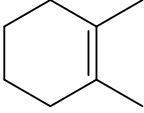
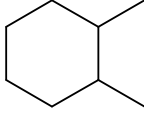
Marks  
4

• Complete the following table.

STARTING MATERIAL	REAGENTS/CONDITIONS	THE MAJOR ORGANIC PRODUCT(S)
	<b>HBr</b>	
	<b>H<sub>2</sub> / Pd / catalyst</b>	
	dilute aqueous H <sub>2</sub> SO <sub>4</sub>	
	2 equivalents of Cl <sub>2</sub>	

**Marks**  
**3**

- Complete the following table. Make sure you indicate any relevant stereochemistry.

STARTING MATERIAL	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)
	dry HI	 <b>(Markovnikov addition)</b>
$\text{H}-\text{C}\equiv\text{C}-\text{CH}_3$	excess $\text{Br}_2$ in $\text{CCl}_4$ solvent	$\begin{array}{c} \text{Br} \quad \text{Br} \\   \quad   \\ \text{H}-\text{C}-\text{C}-\text{CH}_3 \\   \quad   \\ \text{Br} \quad \text{Br} \end{array}$
	$\text{H}_2 / \text{Pd} / \text{C}$	

**Marks**  
**3**

- Draw the constitutional structure of the major organic product formed in the following reactions. Indicate the correct isomer where appropriate.

