• Complete the following table. Make sure you give the name of the starting material where indicated.		Marks 1	
STARTING MATERIAL	REAGENTS/ CONDITIONS	STRUCTURAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)	
ОН	NaOH	O <sup>O</sup>	

The structure of (-)-linalool, a commonly occurring natural product, is shown below.
OH
Give the structural formula of the organic product formed from (-)-linalool in each of the following reactions. NB: If there is no reaction, write "no reaction".
Reagents / Conditions
Structural Formula of Product
Na<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub> in aqueous acid
no reaction

• Complete the following table.			Marks 2
STARTING MATERIAL	REAGENTS/CONDITIONS	THE MAJOR ORGANIC PRODUCT(S)	
ОН	hot concentrated H <sub>2</sub> SO <sub>4</sub>		
ОН	$\operatorname{Cr_2O_7}^{2\Theta}/\operatorname{H}^{\oplus}$		

Complete the following table.			Mar 1
STARTING MATERIAL	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)	
ОН	$\operatorname{Cr_2O_7}^{2}^{\Theta}/\operatorname{H}^{\oplus}$		

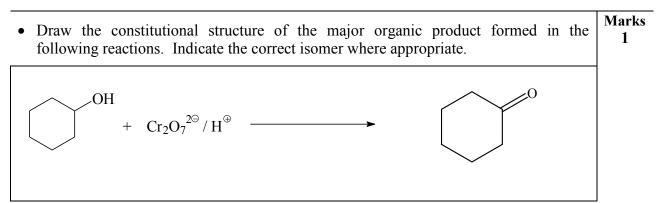
• Complete the following table.			Marks 1
STARTING MATERIAL	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)	
ОН	$\operatorname{Cr_2O_7}^2 \Theta / \operatorname{H}^{\oplus}$		

• Complete the following table.			Marks 2
STARTING MATERIAL	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)	
OH	1. NaOH 2. CH <sub>3</sub> Br	OCH <sub>3</sub>	
ОН	concentrated H <sub>2</sub> SO <sub>4</sub>		

• Complete the following table. Make sure you indicate any relevant stereochemistry.		Marks 1	
STARTING MATERIAL	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)	
O <sub>2</sub> N NO <sub>2</sub> OH	1. NaOH 2. CH <sub>3</sub> Br	O <sub>2</sub> N NO <sub>2</sub>	

\_

• Complete the following table.			Marks 2
STARTING MATERIAL	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)	
ОН	1. OH <sup>−</sup> 2. CH <sub>3</sub> Br	OCH <sub>3</sub>	
ОН	$\operatorname{Cr_2O_7}^{2\Theta}/\operatorname{H}^{\oplus}$	ОН	



• Use curly arrow notation to illustrate the mechanism of each of the following reactions.

