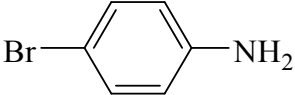


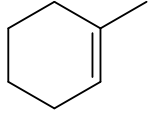
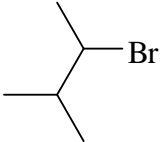
Marks
1

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

STARTING MATERIAL	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)
	2 M HCl	

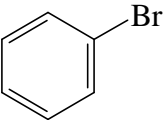
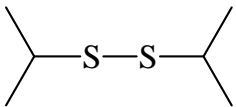
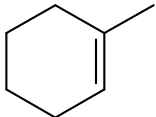
Marks
4

- 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 ₄ (solvent)	
$\text{CH}_3\text{CH}_2\underset{\text{Br}}{\text{CH}}\text{CH}_2\text{CH}_3$ <p>Name:</p>		$\text{CH}_3\text{CH}_2\underset{\text{Br}^\ominus}{\overset{\oplus}{\text{N}}(\text{CH}_3)_3}\text{CH}_2\text{CH}_3$
	hot conc. KOH in ethanol solvent	

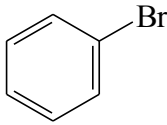
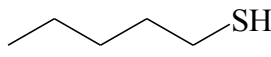
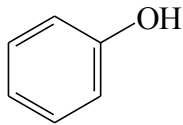
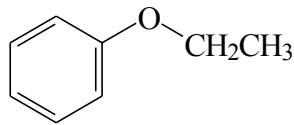
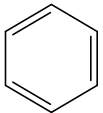
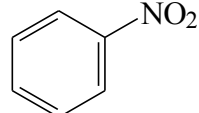
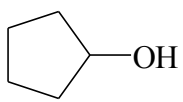
Marks
4

- Complete the following table.

STARTING MATERIAL	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)
$\text{CH}_3\text{CH}_2\text{CH}_2\text{Br}$		$\text{CH}_2\text{CH}_2\text{CH}_3$ $\text{Br}^- \quad \text{N}^+(\text{CH}_3)_3$
	1. Mg / dry ether 2. CO_2 3. $\text{H}^+ / \text{H}_2\text{O}$	
	Zn / H^+	
	$\text{HBr} / \text{CCl}_4$ (solvent)	

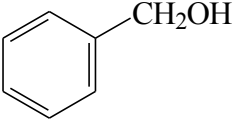
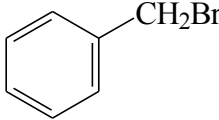
Marks
6

- Complete the following table.

STARTING MATERIAL	REAGENTS/ CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)
$\text{CH}_3\text{CH}_2\underset{\text{Br}}{\text{CH}}\text{CH}_2\text{CH}_3$		$\text{CH}_3\text{CH}_2\underset{\text{Br}^- \text{ } ^+\text{N}(\text{CH}_3)_3}{\text{CH}}\text{CH}_2\text{CH}_3$
	1. Mg / dry ether 2. CO ₂ 3. H ⁺ / H ₂ O	
	I ₂ / air	
		
		
	Cr ₂ O ₇ ²⁻ / H ⁺	

Marks
4

- Complete the following table. Make sure you give the name of the product or starting material where requested.

STARTING MATERIAL	REAGENTS/CONDITIONS	CONSTITUTIONAL FORMULA(S) OF MAJOR ORGANIC PRODUCT(S)
		
CH ₃ CH ₂ CH ₂ Br	(CH ₃ CH ₂) ₃ N	
CH ₃ CH ₂ CH ₂ CH ₂ CHO Name:	1. NaBH ₄ 2. H ⁺ / H ₂ O	