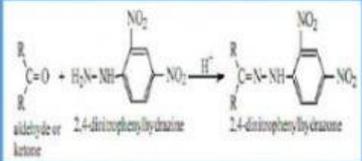
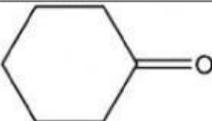
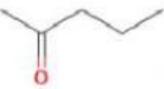
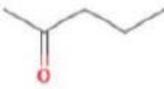
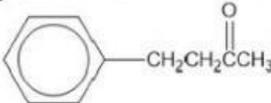
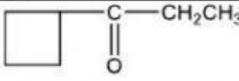
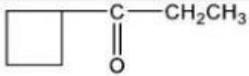
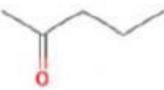
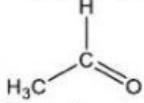
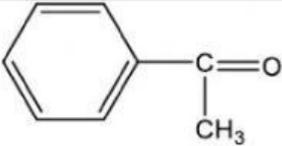
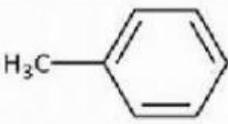
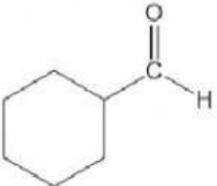
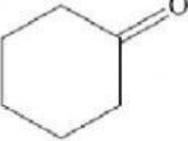
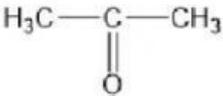
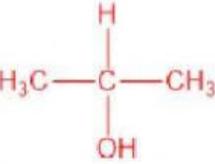


Chemical tests involving carbonyl compounds

<p>Brady's Test: Confirmation test for Carbonyl compounds</p> <p>Yellow orange precipitate is formed</p>  <p>aldehyde or ketone + 2,4-dinitrophenylhydrazine $\xrightarrow{H^+}$ 2,4-dinitrophenylhydrazone</p>	<p>Tollen's Test:</p> <p>To differentiate aldehyde from ketone</p> <p>Formation of silver mirror (Ag)</p> $R-C(=O)-H + Ag(NH_3)_2^+ + OH^- \rightarrow RCOO^- + Ag(s)$	<p>Iodoform test:</p> <p>Confirmation test for structure methyl carbonyl</p> $\begin{array}{c} O \\ \\ -C-CH_3 \end{array}$ <p>methyl carbinol</p> $\begin{array}{c} OH \\ \\ -C-CH_3 \\ \\ H \end{array}$ <p>Yellow precipitate is formed</p>
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Instruction: Propose test(s) to differentiate the two given compounds by writing **Yes** in the column

No	Organic compounds	Brady's test	Tollen's test	Iodoform Test
1	$CH_3CH_2CH_2C(=O)H$ Butanal vs $CH_3CH_2C(=O)CH_2CH_3$ 3-pentanone			
2	$CH_3CH_2CH_2C(=O)H$ Butanal vs  cyclohexanone			
3	$CH_3CH_2C(=O)CH_2CH_3$ 3-pentanone vs  2-pentanone			
4	 2-pentanone vs $CH_3CH_2CH_2C(=O)H$ Butanal			
5	 4-phenyl-2-butanone (ketone) vs  1-cyclobutyl-1-propanone (ketone)			
6	 1-cyclobutyl-1-propanone (ketone) vs  2-pentanone			
7	 Ethanal vs CH_3CH_3 Ethane			

NO	Organic Compounds	Brady's test	Tollen's test	Iodoform test
8	 <p>acetophenone</p>	 <p>Toluene</p>		
9	 <p>Cyclohexanecarbaldehyde</p>	 <p>Cyclohexanone</p>		
10	 <p>Propanone</p>	 <p>2-propanol</p>		