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COURSE: CHEMISTRY 102

MAJOR: 19/MH301/194

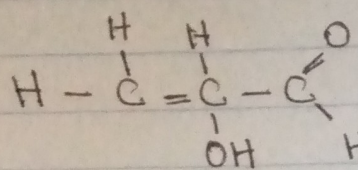
DEPT: MEDICINE & SURGERY (MBS9)

Answers

i) Name the functional groups present in each of the following molecules

Answer

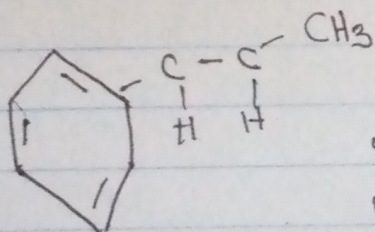
(i) $\text{CH}_2 = \text{C}(\text{OH})\text{HCHO} \rightarrow$ Structural Formula



- Functional groups present
- Double bond chain (Alkene)
 - $-\text{OH}$ (Hydroxyl group)
 - $\begin{array}{c} \text{O} \\ // \\ \text{C} \\ \backslash \\ \text{H} \end{array}$ (Aldehyde)

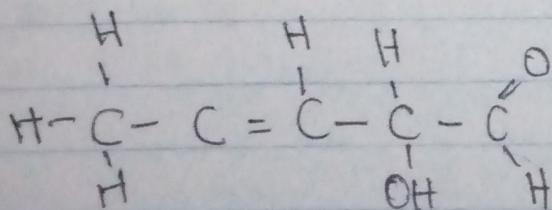
ii) $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$

Answer



- Functional groups present
- phenyl group (aromatic group)
 - Amino group (NH_2)
 - Alkaneone (ketone) ($\begin{array}{c} \text{O} \\ // \\ \text{C} - \text{R} \end{array}$)

iii) $\text{CH}_3\text{C} = \text{CCH}(\text{OH})\text{CHO}$



Functional groups present

- Alkene ($\text{C} = \text{C}$)
- Hydroxyl group (OH)
- Alkaneal ($\begin{array}{c} \text{O} \\ // \\ \text{C} \\ \backslash \\ \text{H} \end{array}$)

