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CHEM 102 ASSIGNMENT

MBBS 19/MHS01/192

- a) $\text{CH}_2=\text{C}(\text{OH})\text{HCHO}$ – alkene, alkanol
b) $\text{C}_6\text{H}_5\text{CH}(\text{NH}_2)\text{COCH}_3$ - Amine, alkanone
c) $\text{CH}_3\text{C}=\text{CHCH}(\text{OH})\text{CHO}$ – alkene, alkanol

2.

$$[\alpha]_D^{25} = \frac{\alpha}{l \times c}$$

where;
 l = length of simple fuse
 α = observed rotation
 c = mass / volume

$$\text{Specific rotation} = \frac{1.0}{10 \times (0.856)} = 11.65$$

ii Hexa - 2, 4-diene

$$\begin{array}{ccccccc} & & & & \text{H} & & \\ & & & & | & & \\ \text{H} & - & \text{C} & = & \text{C} & - & \text{C} & - & \text{H} \\ & | & & & | & & | & & \\ & \text{H} & & & \text{H} & & \text{H} & & \end{array}$$

ii 2, 3 - Dimethylbut - 2 - ene

$$\begin{array}{ccccccc} & & & & \text{H} & & \\ & & & & | & & \\ \text{H} & - & \text{C} & = & \text{C} & - & \text{C} & - & \text{H} \\ & | & & & | & & | & & \\ & \text{H} & & & \text{H} & & \text{H} & & \end{array}$$