

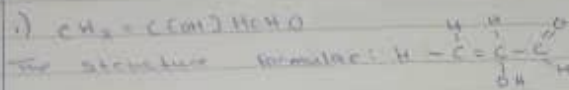
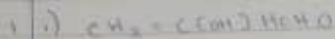
Chemistry assignment

MBS

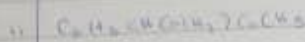
19/11/2020

chem 102

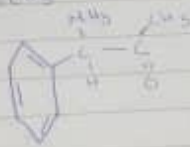
Assignment



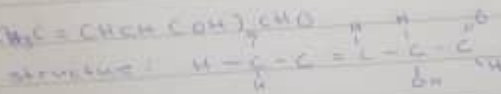
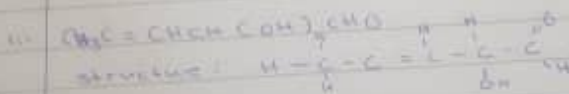
Functional groups present - Double bond (Alkene)  
- hydroxyl group  
- methyl group



Structure:



Functional groups present - phenyl group (C<sub>6</sub>H<sub>5</sub>), methyl group, double bond  
- amine  
- Alkane / ketone (C=O)



Functional groups present - Alkene (C=C)  
- hydroxyl group (OH)  
- Alkane (C-H)

2. Recall,  $[\alpha]_D^{25} = \frac{\alpha}{l \times c}$

where,  $l$  = length of sample

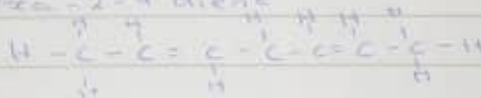
$c$  = mass (g/dm<sup>3</sup>) or (g/100ml)

$\alpha$  = observed rotation

$$S_c = \frac{100}{\alpha \times l} \times \alpha$$

$$S_c = \frac{1}{0.025} = 40$$

3) Hexa-2-ene diene



ii) 2,3-Dimethylbut-2-ene

