

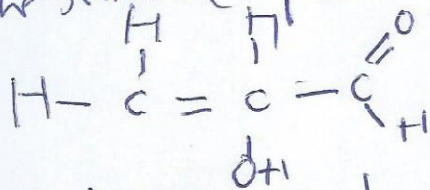
A King bogobon Oluatemi

Matric No: 01/ENG024004

Computer Engineering



The structural formula:



Functional present are:

Double bond chain = (Alkene)

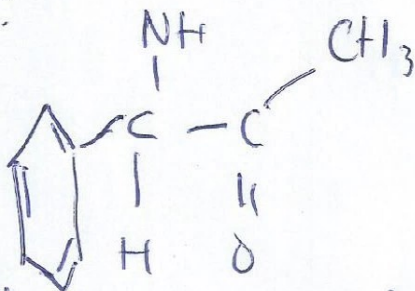
-OH (hydroxy group)

-C<sup>1/0</sup> (Alkanol)

ii



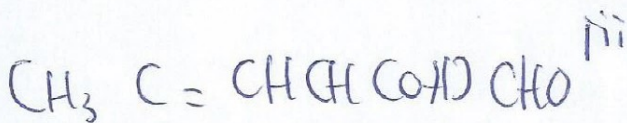
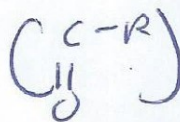
Structure:



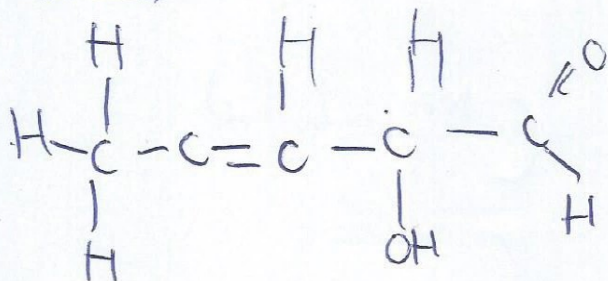
functional group  $\text{C}_6\text{H}_5$  with double bonds

- Amine

- Alkane / Ketone



Structure



functional present  
- Alkene  $\text{C} = \text{C}$

Hydroxyl group  $\text{OH}$

Aldehyde  $\text{C} \equiv \text{O}$

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

where

$l$  = length of sample tube

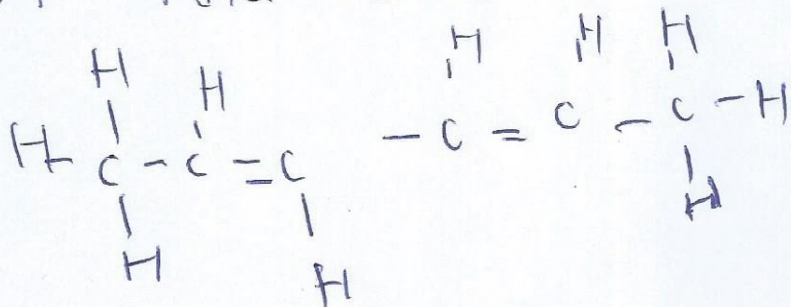
$c$  =  $\frac{\text{mass}}{\text{volume}}$  (g/dm<sup>3</sup>) or (g/ml)

$\alpha$  = observed rotation

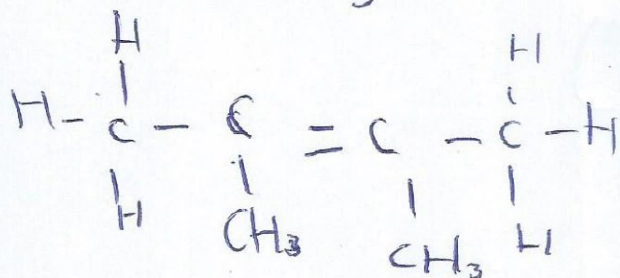
$$S_D = \frac{1.0}{1.0 \times \left(\frac{0.8206}{10}\right)}$$

$$S_D = \frac{1}{0.08206} = 11.68$$

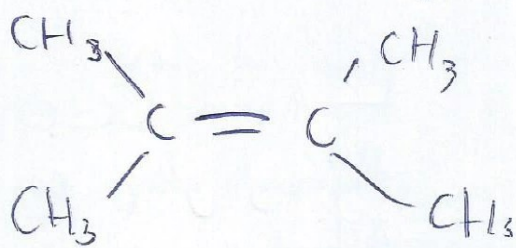
3) i) Hexa → 2-4 diene



2,3 Dimethyl but-2-ene



or



(N<sub>2</sub>O - butene)