

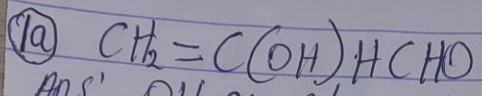
Name: SAMPSON JOSHUA CHIBUIKE

MATRIC N.O: 19/MHS01/394

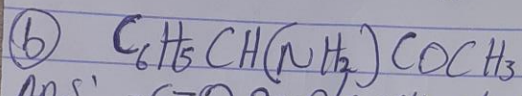
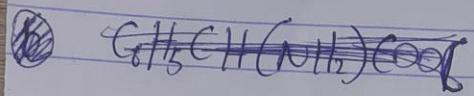
DEPT: MEDICINE AND SURGERY

DATE: 16/05/2020

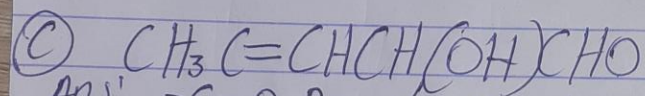
ASSIGNMENT



Ans: OH group/functional group (ALKANOL)



Ans: $-\text{C}=\text{O}$ group/functional group (ketones or Aldehydes)



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OH

$$C = 0.8569 \text{ g cm}^{-3}$$

~~but 1 g cm^{-3} is equal 0.0041~~

$$\text{Concentration} = 10 \times 0.004048 =$$

~~for~~

$$\textcircled{2} \text{ Concentration} = 10 \times 0.004048 = 0.04048 \text{ mol}$$

$$\therefore C = 0.8569$$

$$0.04048 \text{ mol}$$

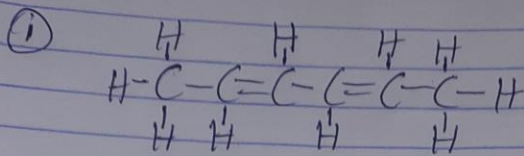
$$C = 21.1462 \text{ g mol}^{-1}$$

$$[\alpha]_{\lambda}^T = \alpha$$

$$[\alpha]_{\lambda}^T = \frac{l \cdot c}{+1.0^\circ}$$

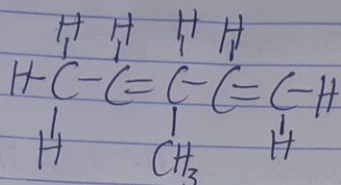
$$[\alpha]_{\lambda}^T = \frac{1.0 \times 21.1462}{0.0473^\circ}$$

3) (a) ~~Hexa-2,4-diene~~ Hexa-2,4-diene



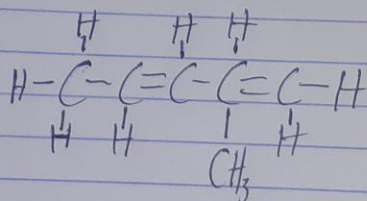
Hexa-2,4-diene

(ii)



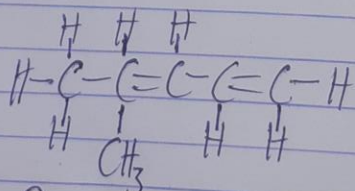
3-methylpenta-2,4-diene

(iii)



4-methylpenta-2,4-diene

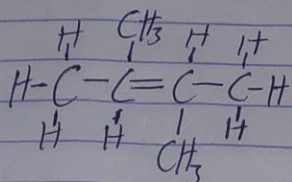
(iv)



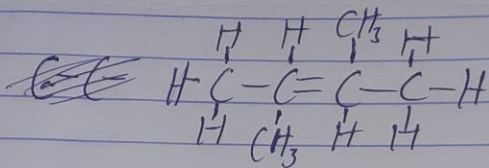
2-methylpenta-2,4-diene

✗

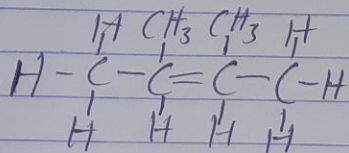
(b) 2,3-Dimethylbut-2-ene



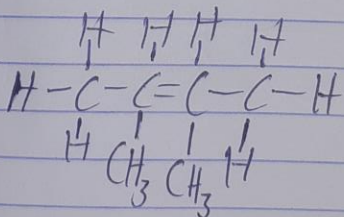
2,3-Dimethylbut-2-ene



2,3-Dimethylbut-2-ene



2,3-Dimethylbut-2-ene



2,3-Dimethylbut-2-ene.