

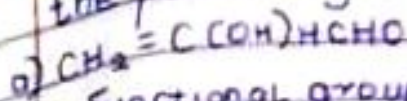
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Matric no: 19/MH501/218

Medicine

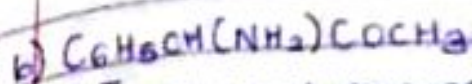
Assignment

1) Name the functional groups present in each of the following



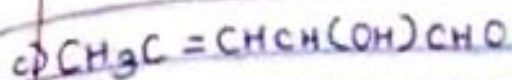
Functional groups present are

- Alkene group (Double bond)
- Hydroxyl group (OH)
- Aldehyde group (HO)



Functional groups present are

- Amine group ( $\text{NH}_2$ )
- Phenyl group
- Ketone group



Functional groups present are,

- Alkene (Double bond)
- Hydroxyl group
- Aldehyde group

2) Recall

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

Where,

$l$  = Length

$c$  = mass

Volume

$\alpha$  = Observed rotation

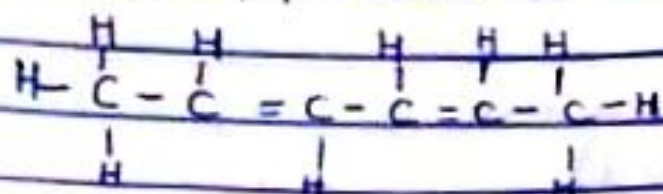
$$S_r = \frac{1.0}{10}$$

$$\Gamma \times \left( \frac{0.856}{10} \right)$$

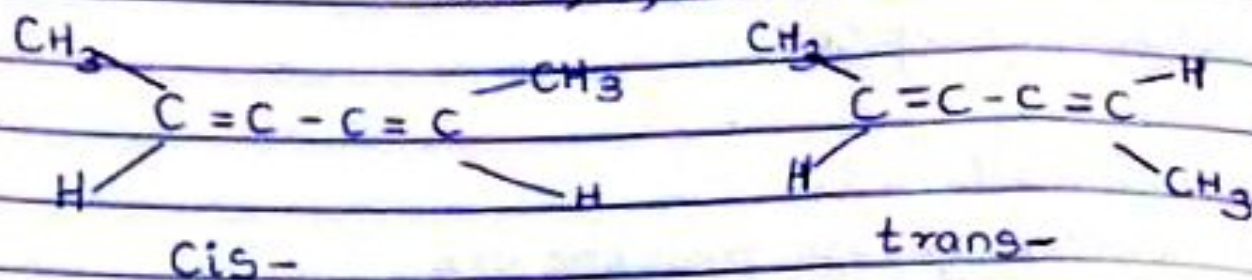
$$S_r = \frac{1}{0.0856} = 11.68$$

3) Draw possible isomers for;

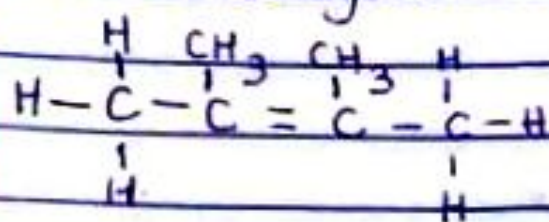
a) Hexa-2,4-diene



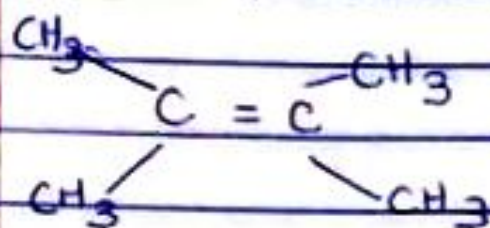
Hexa 2, 4, diene



b) 2,3 dimethylbut-2-ene



2, 3 dimethylbut-2-ene



NO geometric isomer