

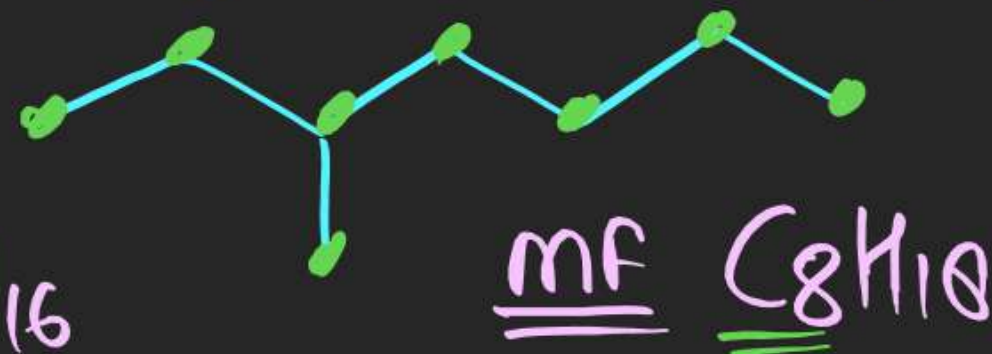
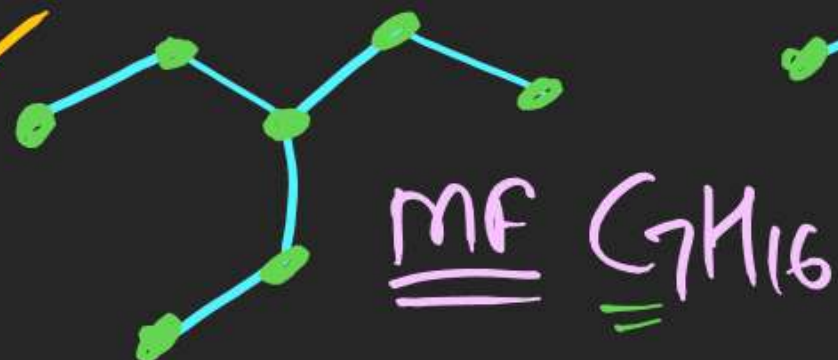
(2)



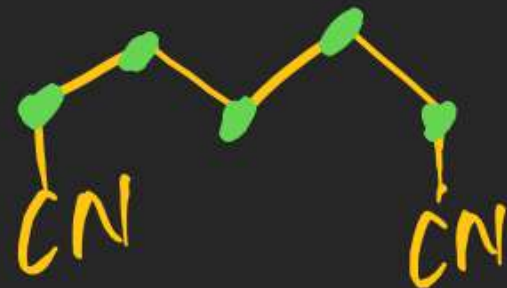
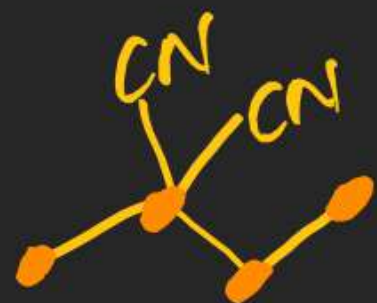
Chain Isomers

(Homologues)  
Not isomers

(3)

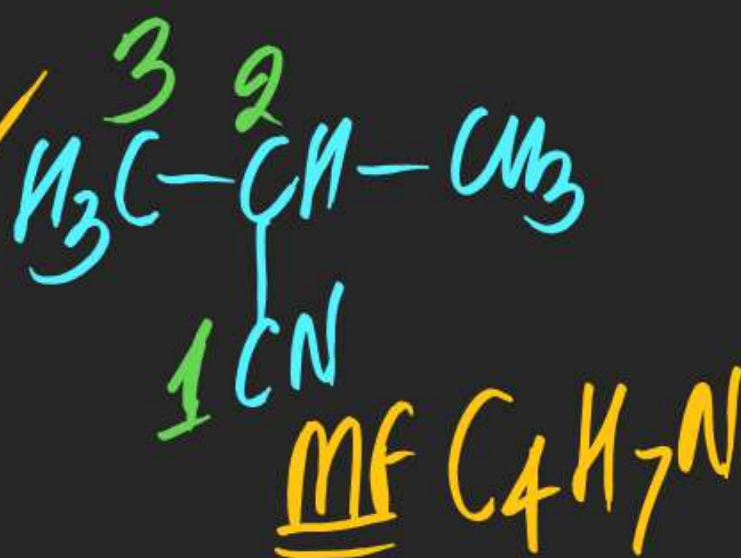


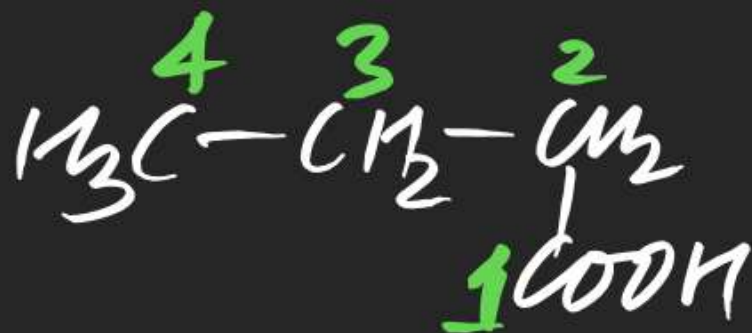
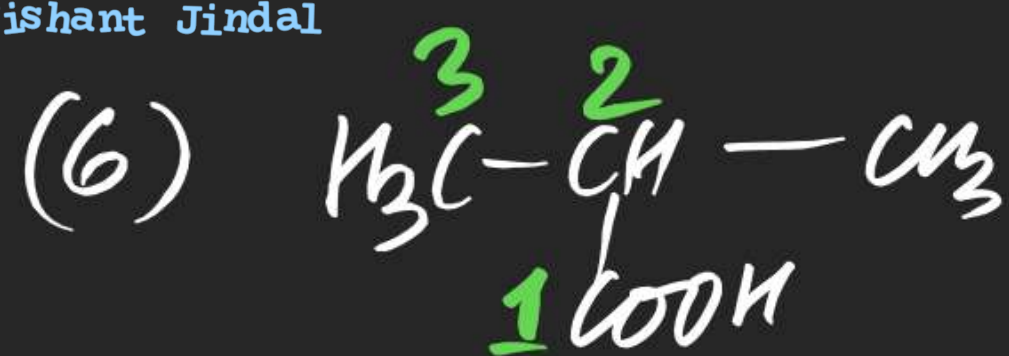
(4)



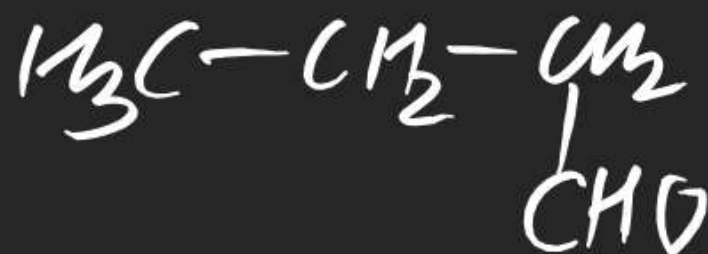
(Not isomer)

(5)





Chain Isomers



Chain Isomers



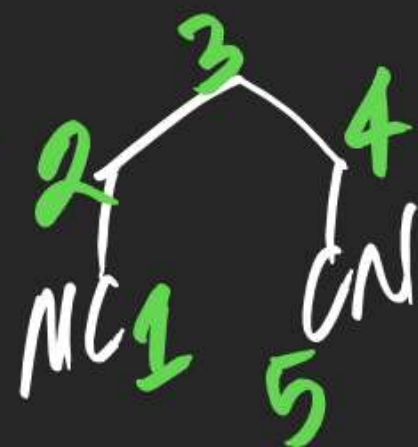
MF  $\text{C}_7\text{H}_{16}$



chain Isomerism

MF  $\text{C}_7\text{H}_{16}$

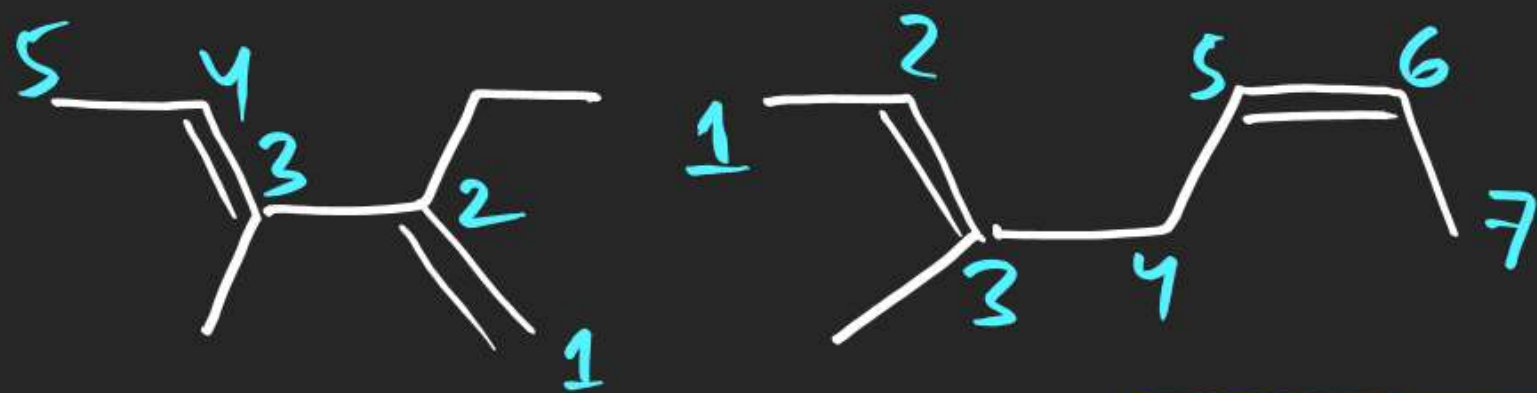
(9)



Chain Isomers



(10)

Chain Isomers

## (#) Ring chain Isomerism:

⇒ Compounds having same MF But difference in Ring & chain format.

or

If any atom which is in cyclic segment in one isomer & in cyclic segment in another isomer then they are known as Ring chain isomers.

Note Each Isomer must have at least 1 degree of Unsaturation.

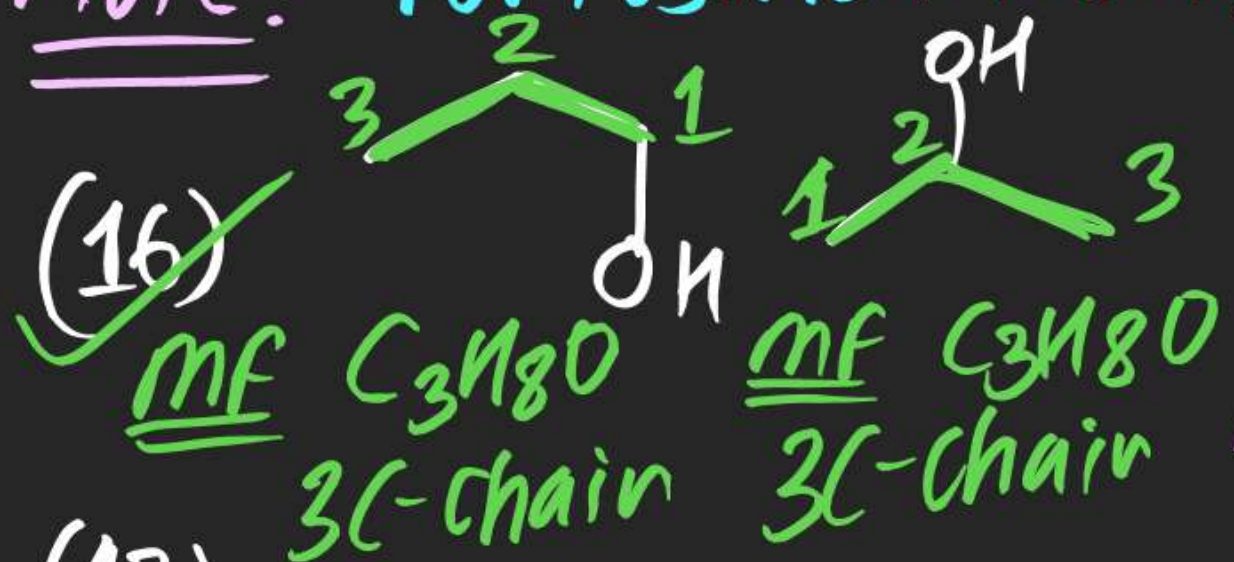




# (#) Position Isomerism:

⇒ Compounds having same m.f But different position of atoms/groups are known as Position isomers.

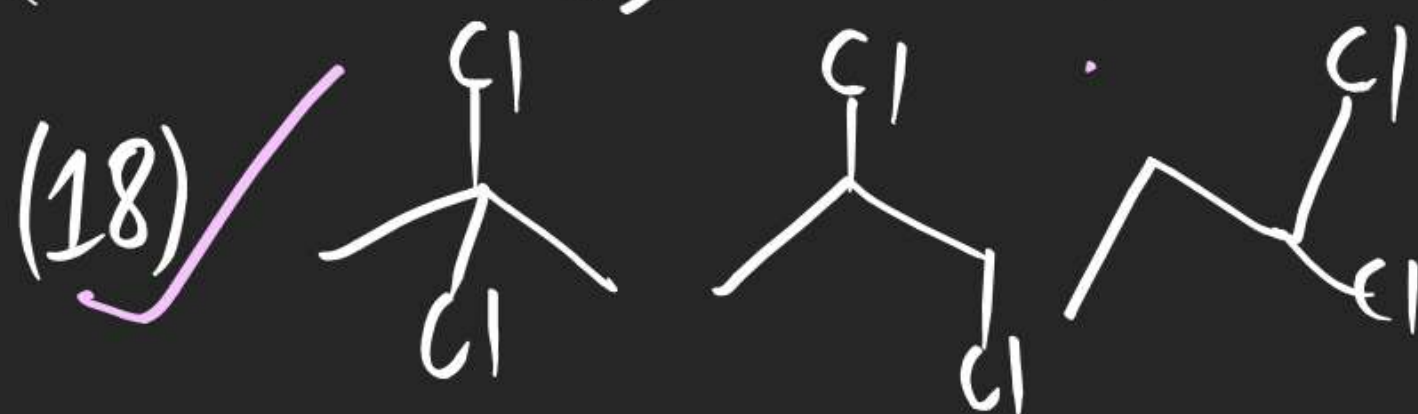
Note: For Position isomers, chain length must be same.



Position Isomers

2nd in class

10th Rank in class

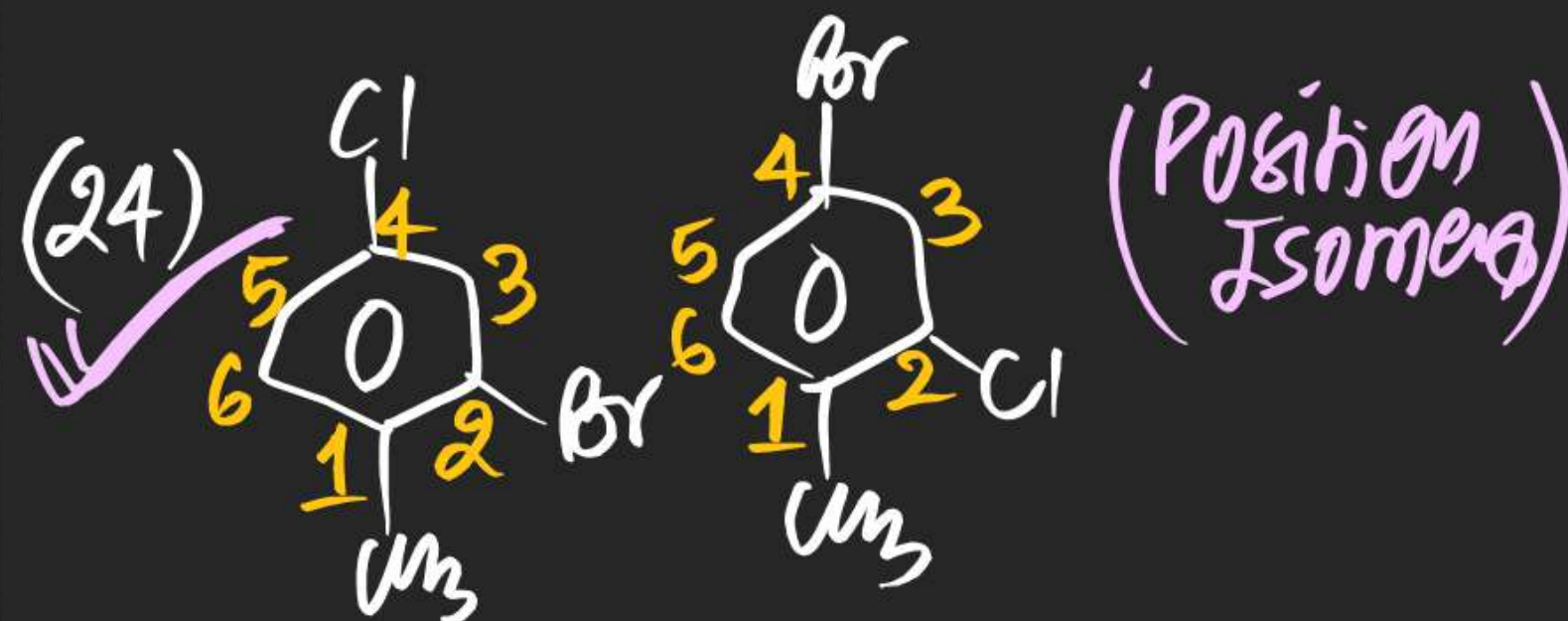
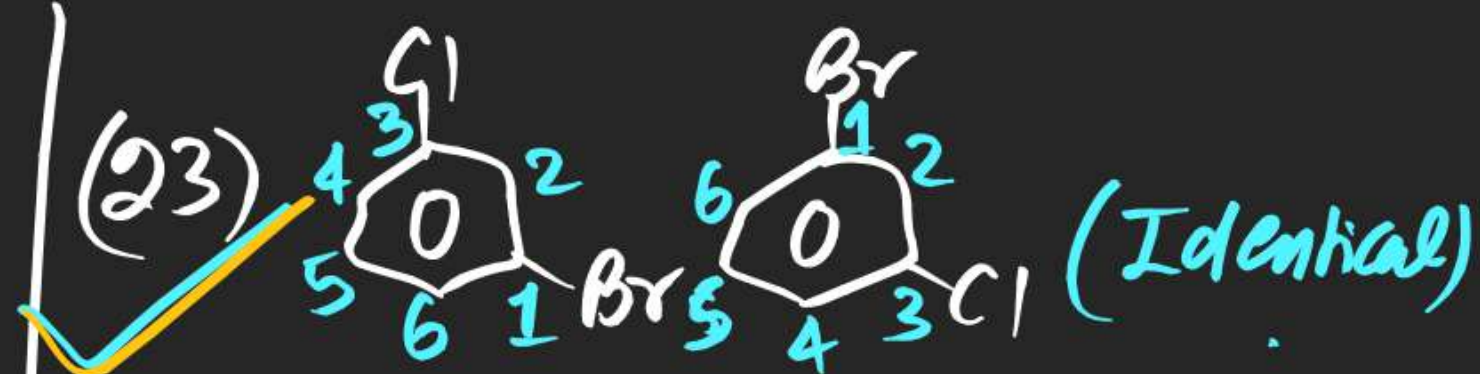
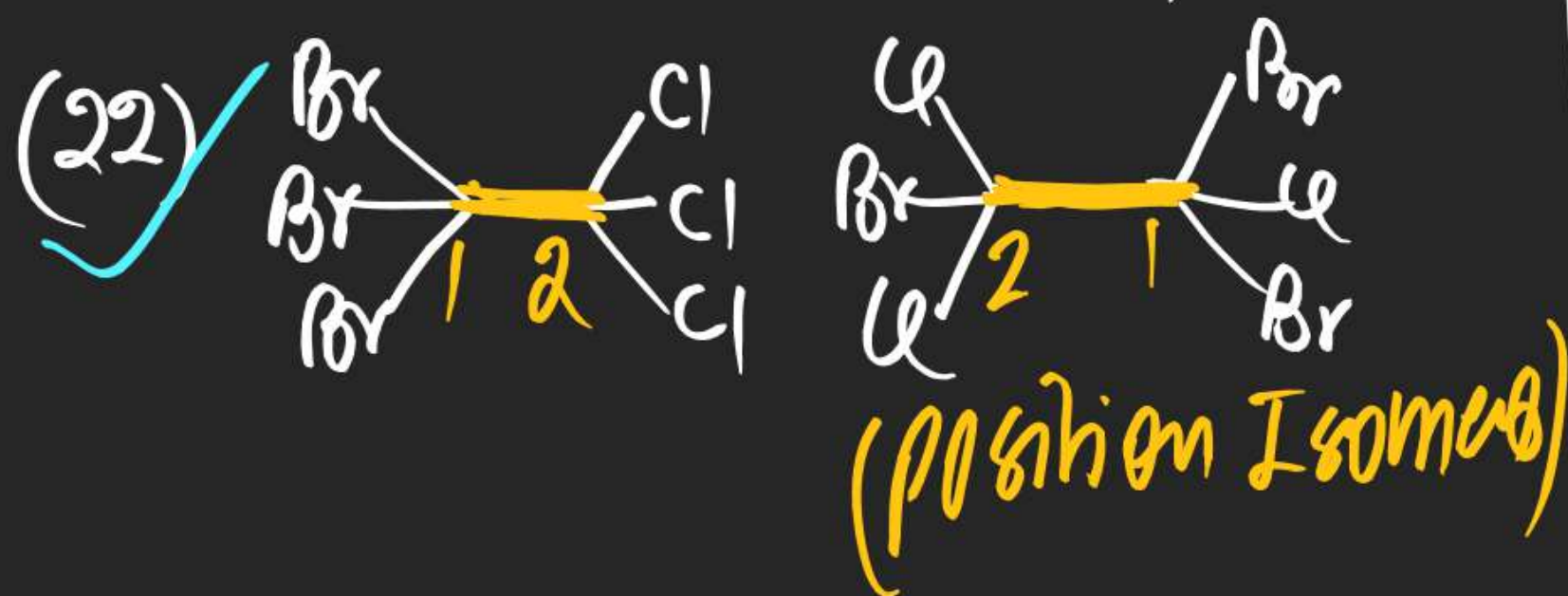
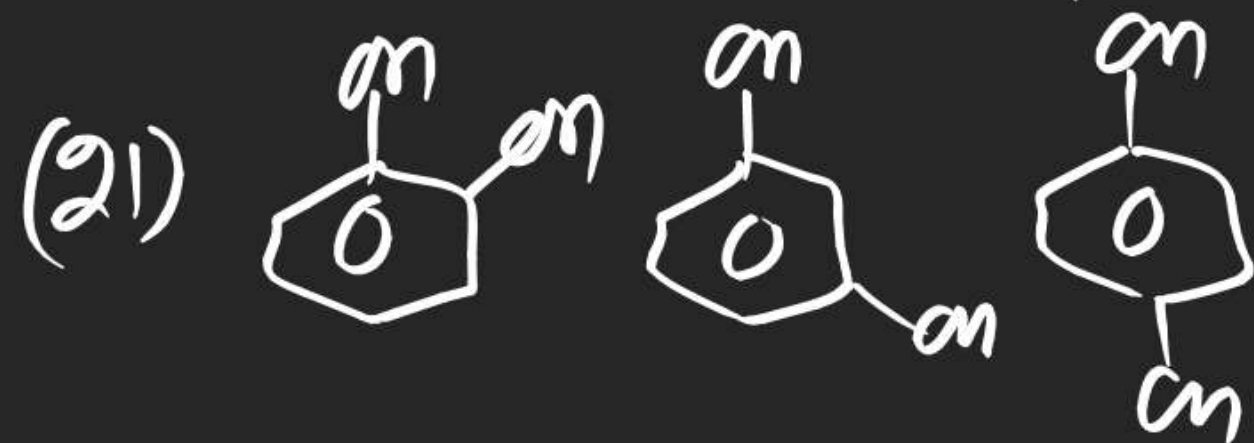
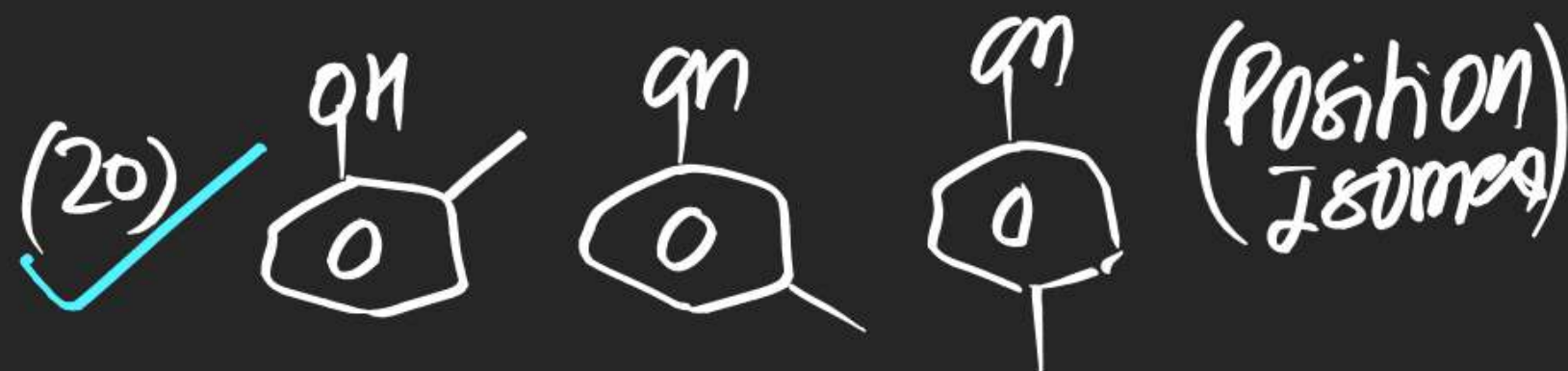
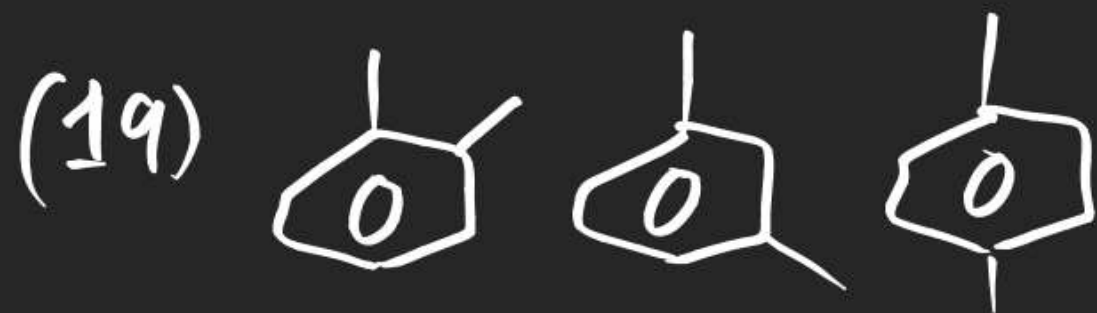


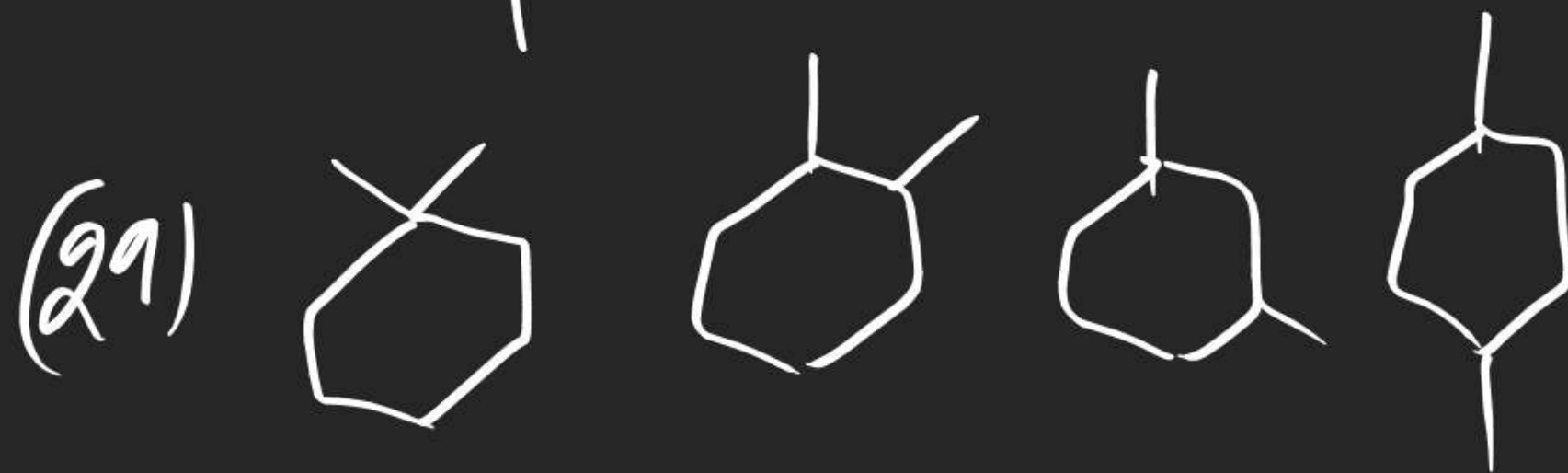
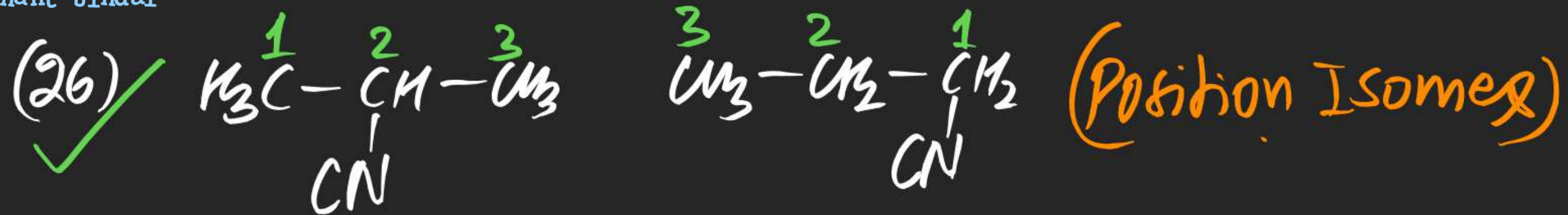
Position isomers.

2 students

2005



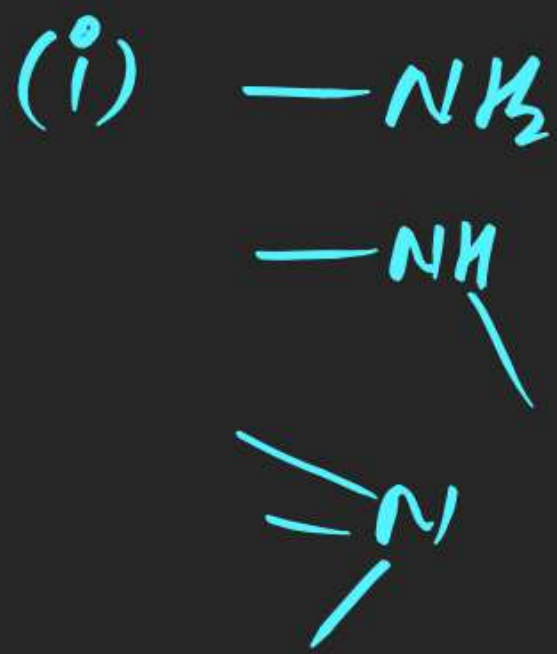




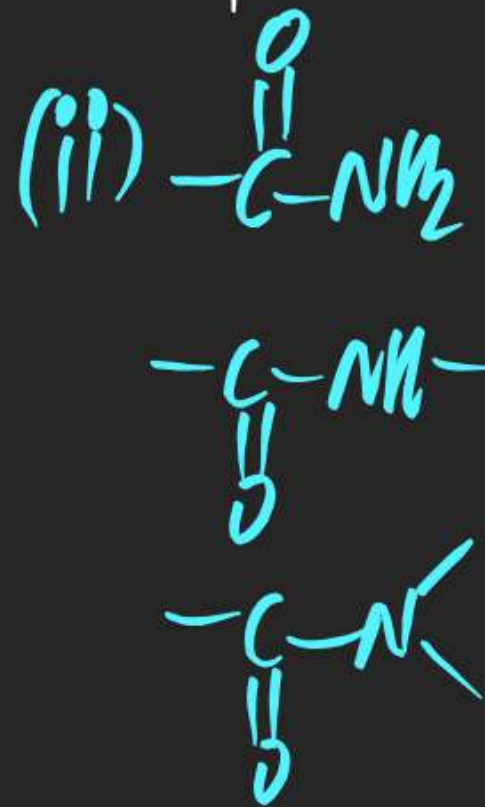


(#) Functional Isomerism: Compounds having same MF But difference in functional groups are known as functional isomers.

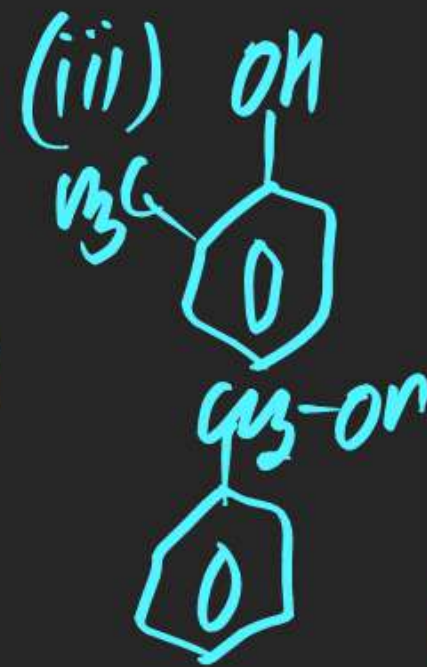
Note



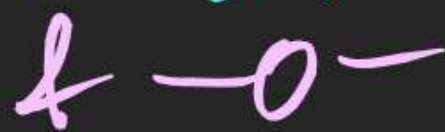
} diff. f. groups



} diff. f. groups

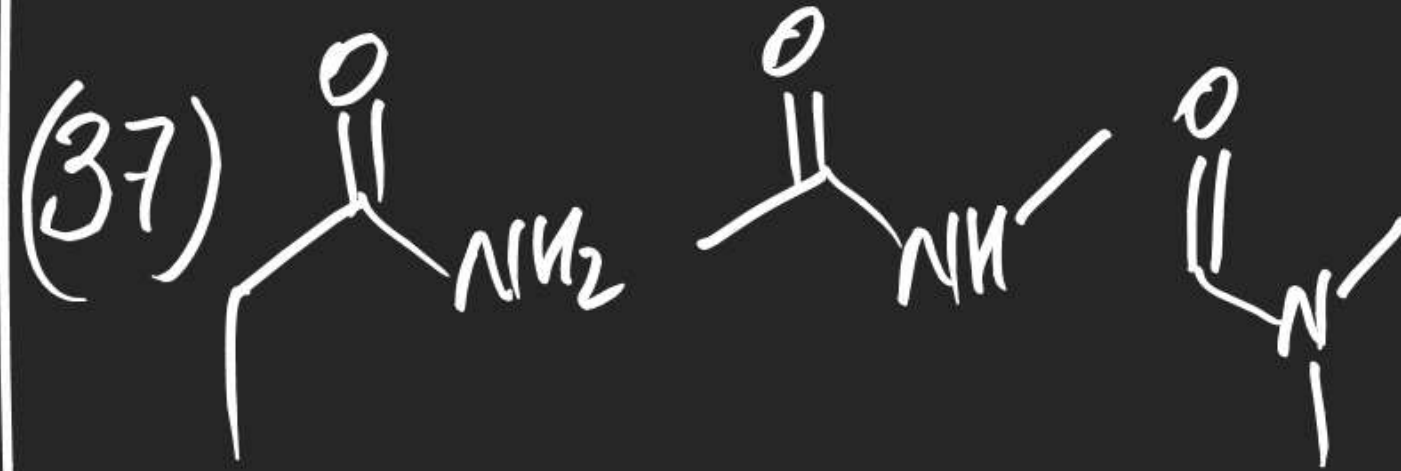
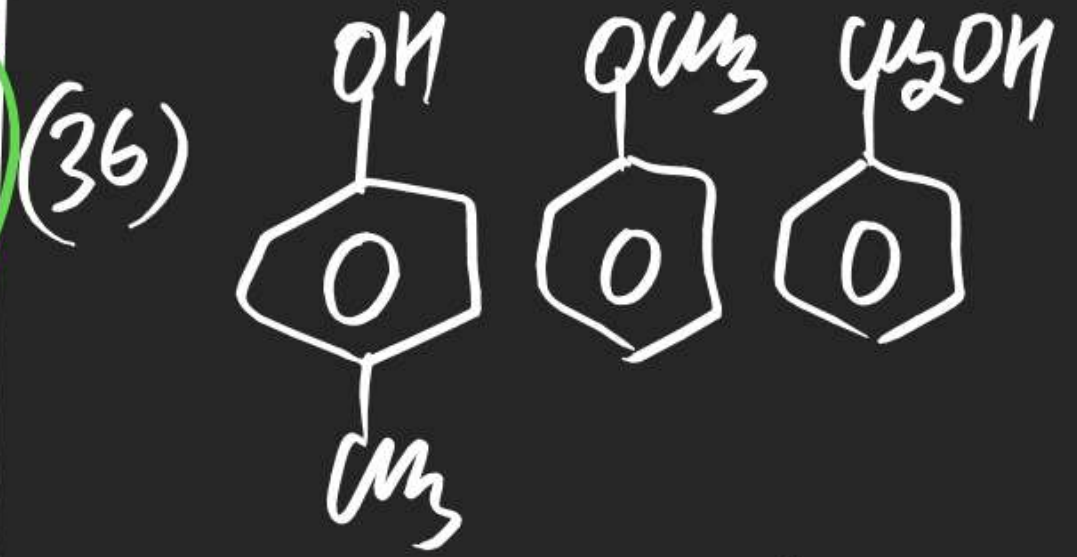


} diff. f. groups.

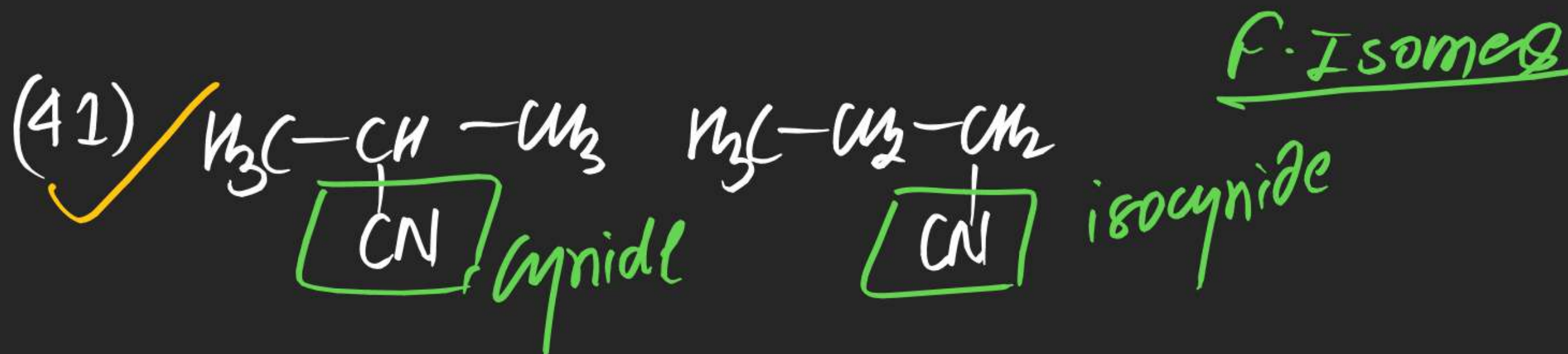
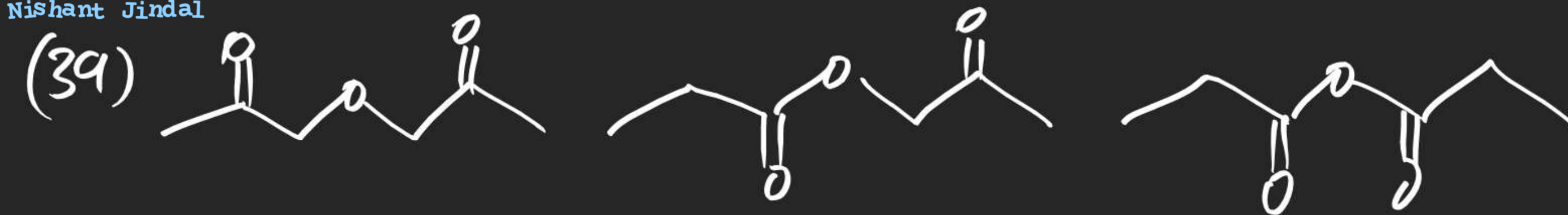


(functional isomers)





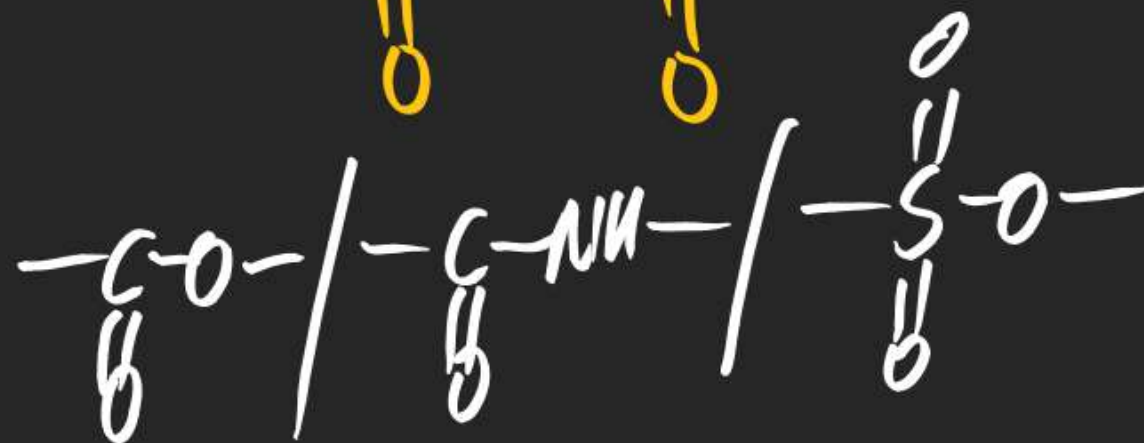






(#) metamerism: Compounds having same MF But difference in alkyl groups w.r. to Bivalent functional groups.

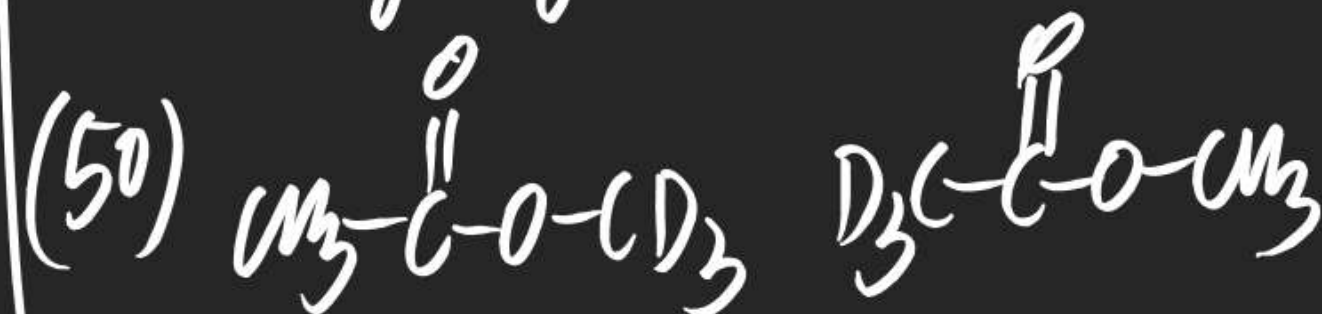
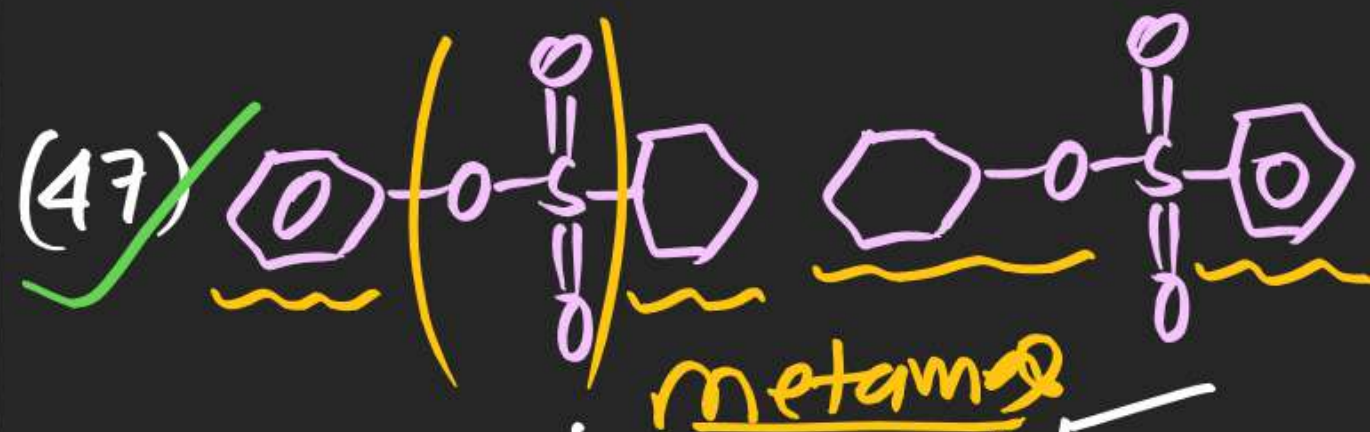
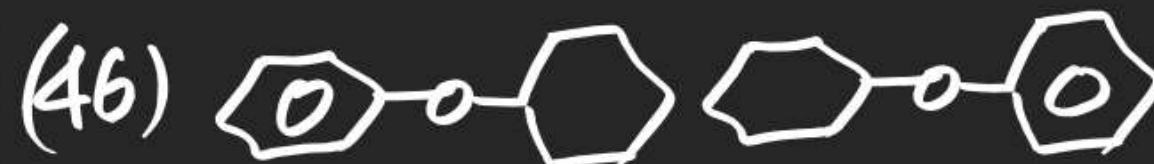
monovalent







metamers





(51) Draw HydroCarbon with least mol. wt which  
Can show.

Alkane

Alkene

Alkyne

(a) Chain isomerism

(b) Ring chain isomerism

(c) Position isomerism

# Tautomerism:-

(x-1), 2 & 3