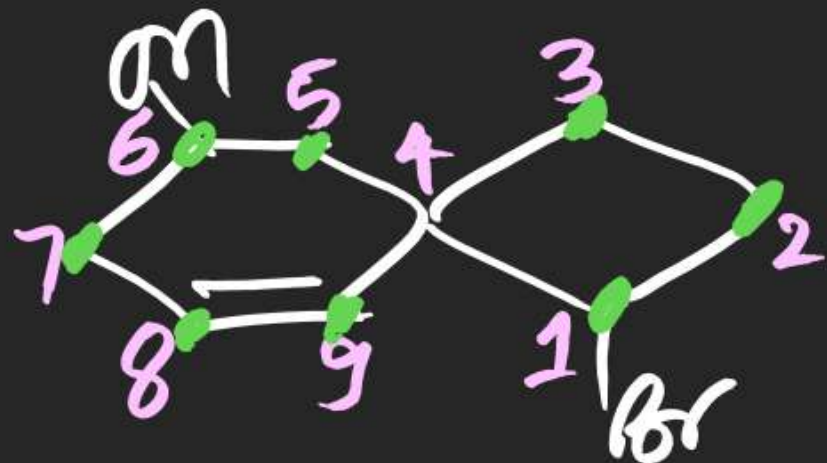
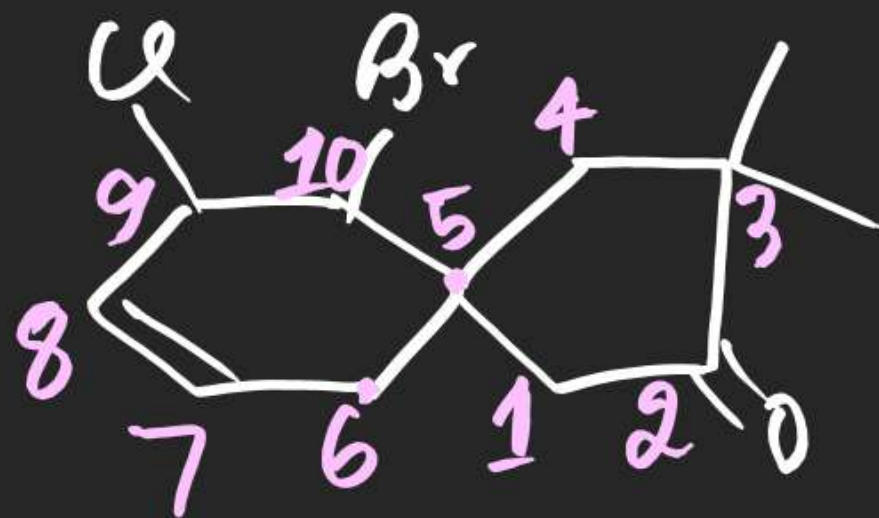


(276)



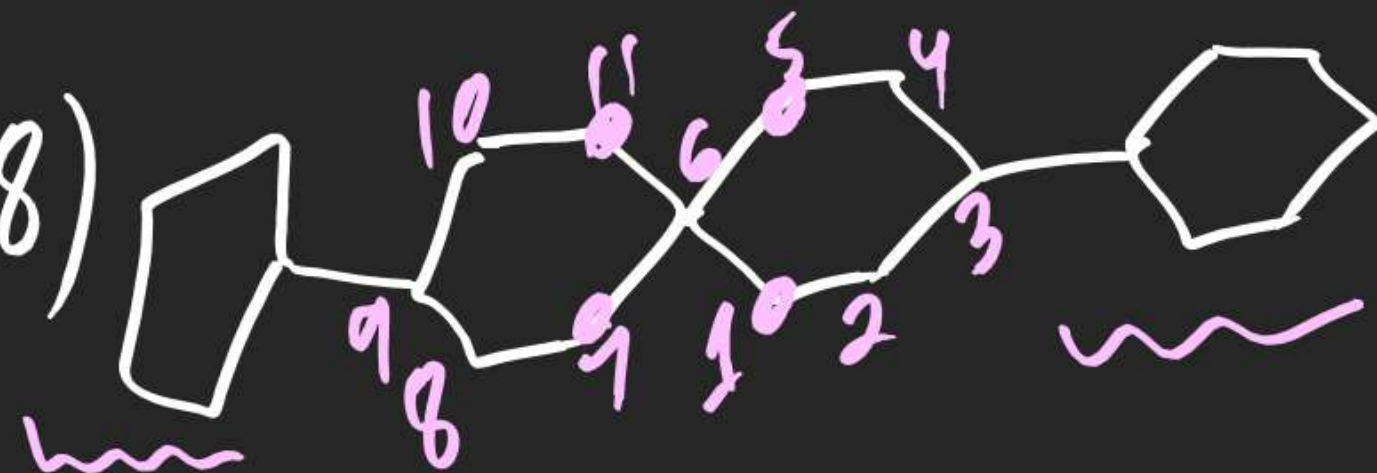
1-Bromo spiro[3,5] non-8-en-6-ol

(277)



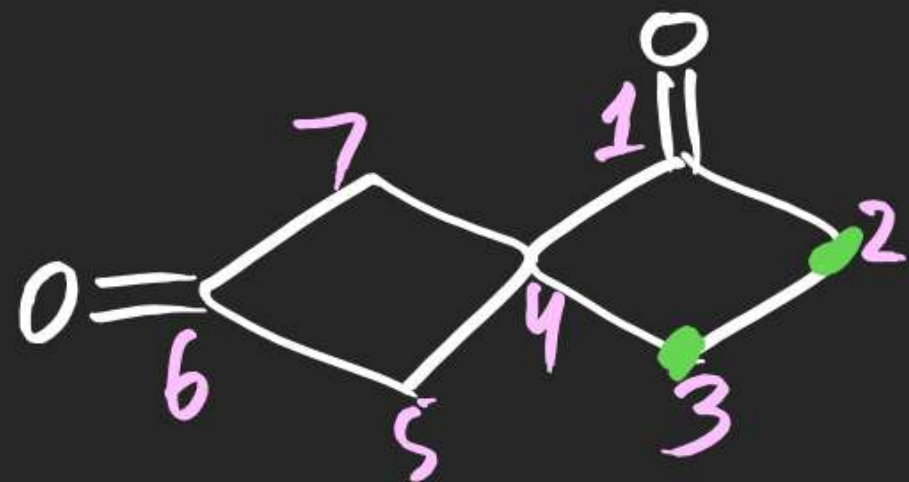
10-Bromo-9-chloro-3,3-Dimethyl  
spiro[4,5] Dec-7-en-2-one

(278)



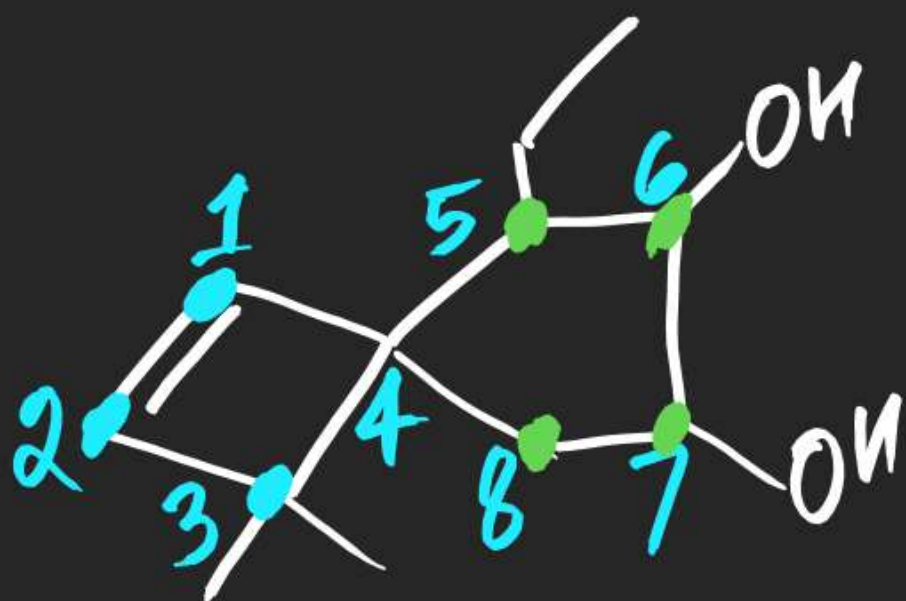
3-cyclohexyl-9-cyclopentyl  
spiro[5,5] Undecane

(279)



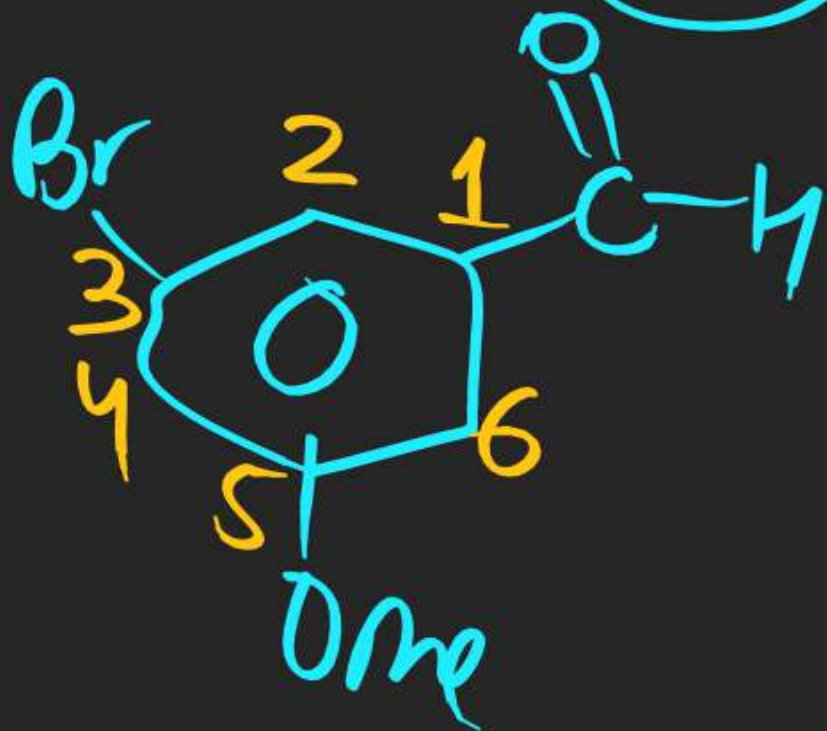
Spiro[3.3]heptan-1,6-dione

(280)



5-ethyl-3,3-dimethyl  
spiro[3.4]oct-1-en-6,7-diol

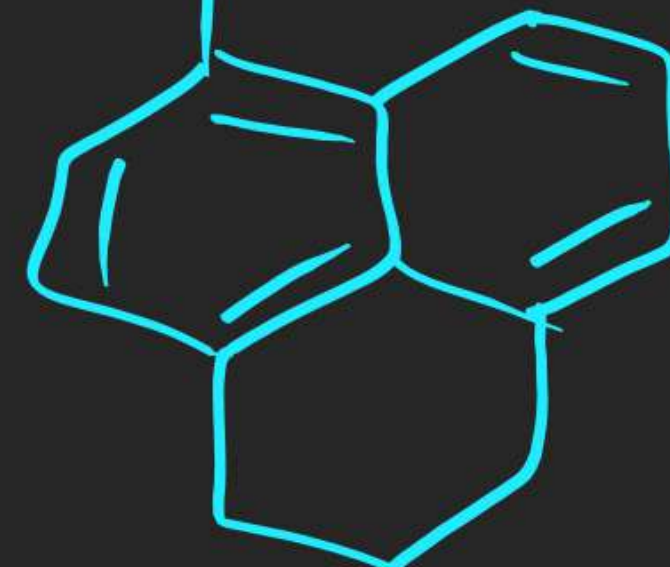
(23)



22



25



Next class

26-75

IUPAC

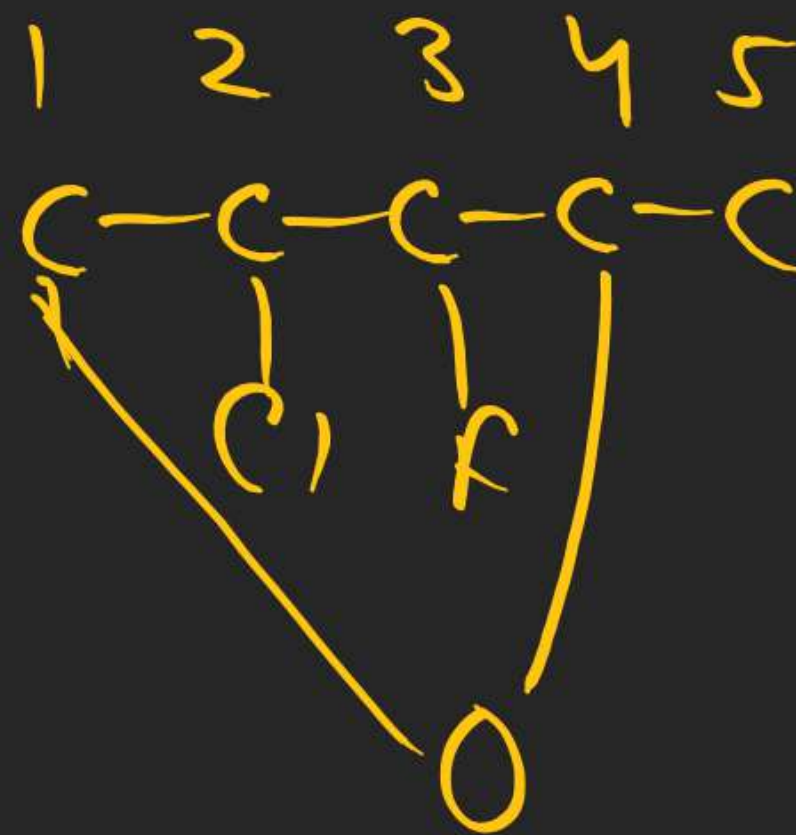
BB

# BB (discussion) (25-30)

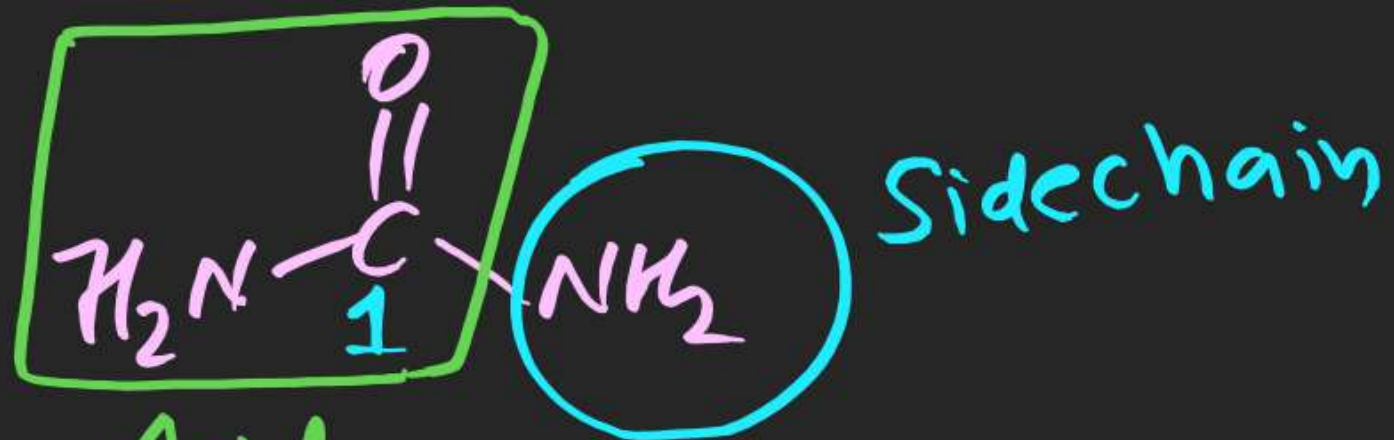
(25) ©

2-chloro - 3-fluoro - 1,4-Epoxy Pentane  
 $2^{\circ}$  Pref  $2^{\circ}$  Pref  $2^{\circ}$  Pref WR  $1^{\circ}$  Suffix

$1^{\circ}$  Prefix ~~X~~  
Word Root ✓



(26)

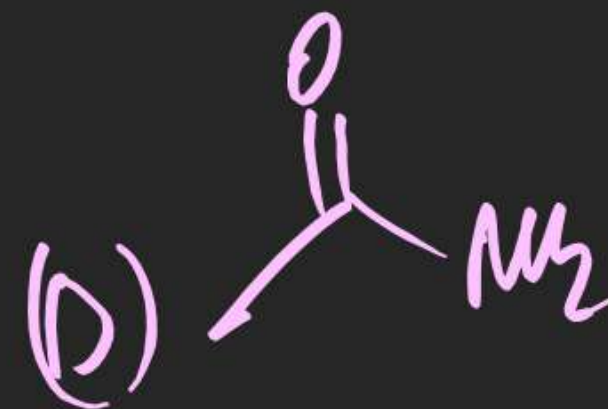
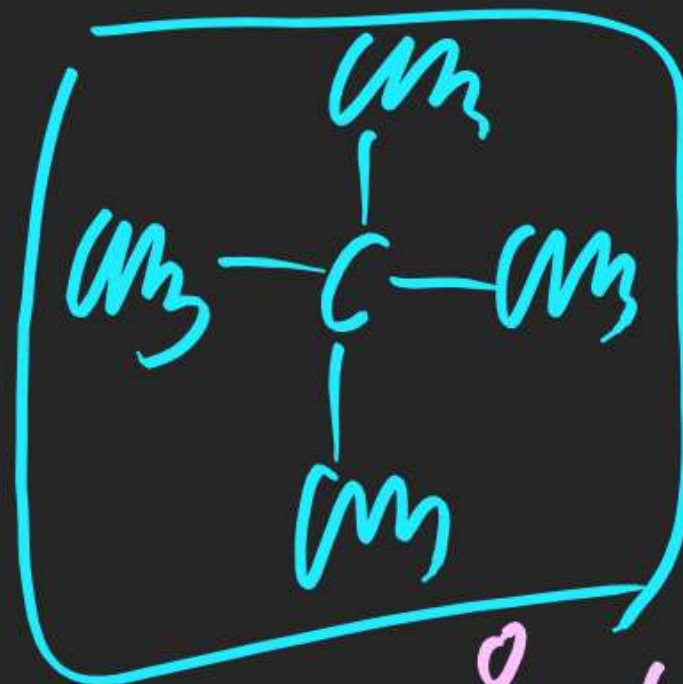


Acid  
amide

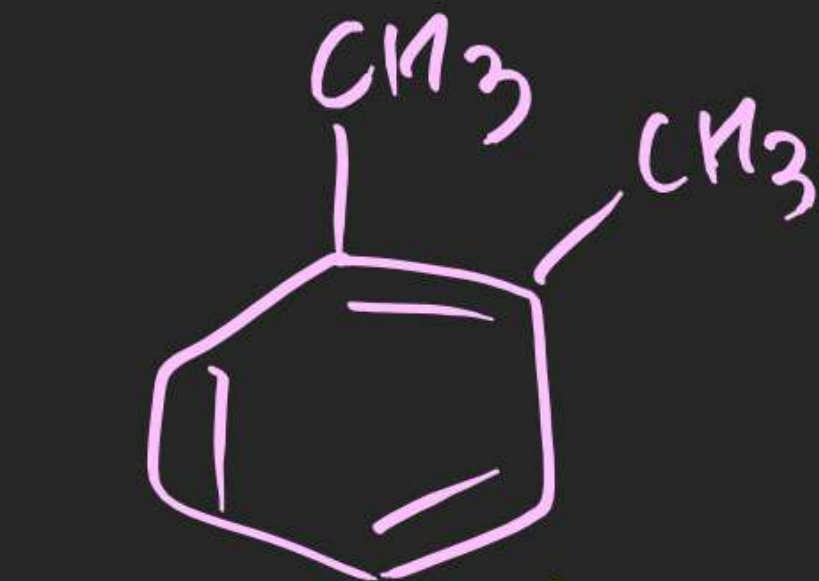
Uracil

Amino Methanamide

(28) (B) neopentane



(32)



o-xylene

$$\sigma = 10$$

$$\pi = 3$$

$$IHD = DOV = DBE = 1 + 3 = 4$$



p-xylene

(33)  $C_6H_6$   $DBE = 4$ 

2 Triple Bond

1 Triple Bond &amp; 2 D. Bond

4 Double Bond

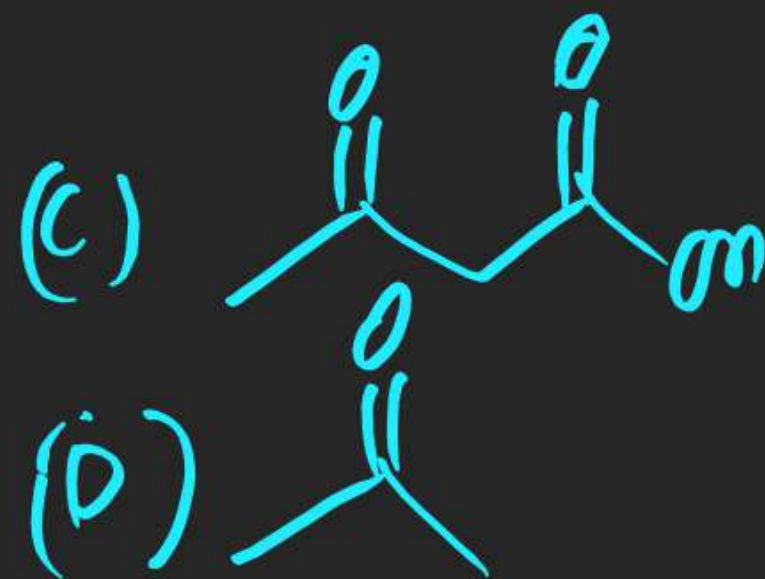
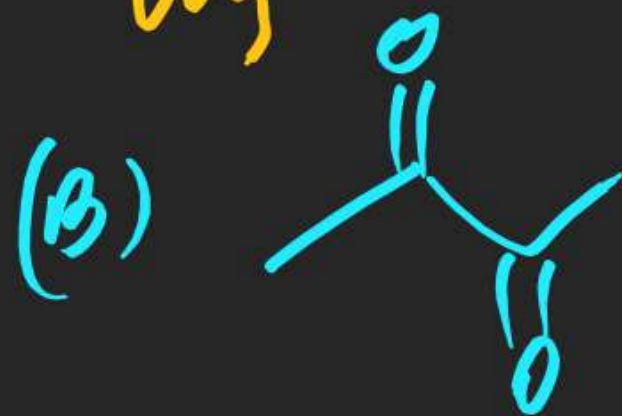
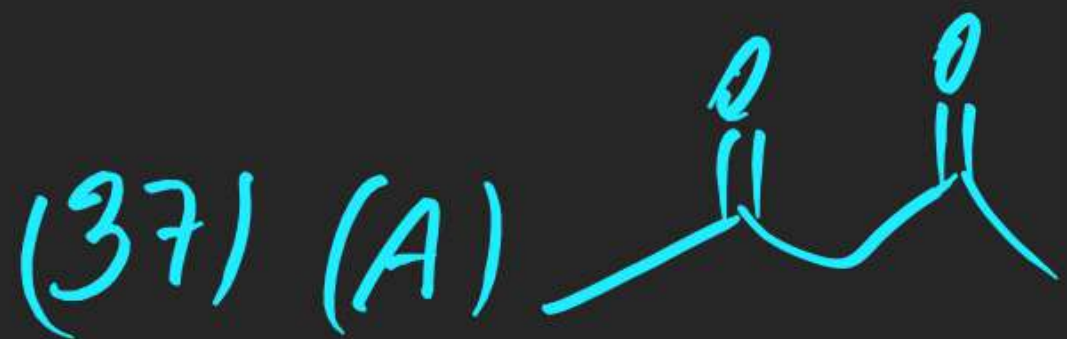
1 Ring + 3 D. Bond




(34) (A) Allene  $\text{CH}_2=\text{C}=\text{CH}_2$

(C) Bicycloalkene 

(35) tertiary Butyl  $\begin{array}{c} \text{CH}_3 \\ | \\ -\text{C}-\text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$

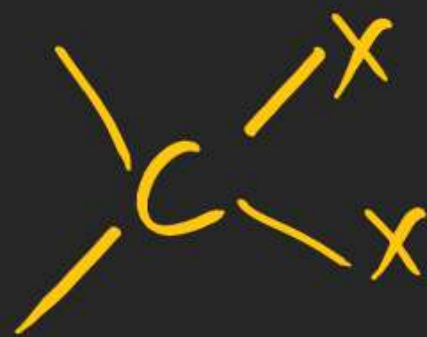


(42) (b) Aryl  $\Rightarrow$  Aromatic side chain  
 phenyl ()

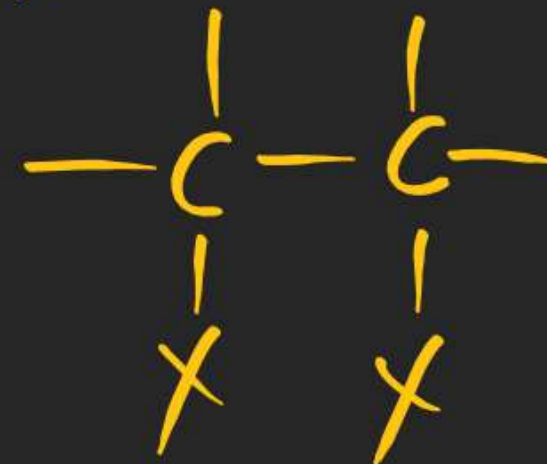
(A) Allyl  $\Rightarrow -CH_2-CH=CH_2$

(43) geminal  $\Rightarrow$  gem.

vicinal  $\Rightarrow$  vic



geminal dihalide



vicinal dihalide

(45)

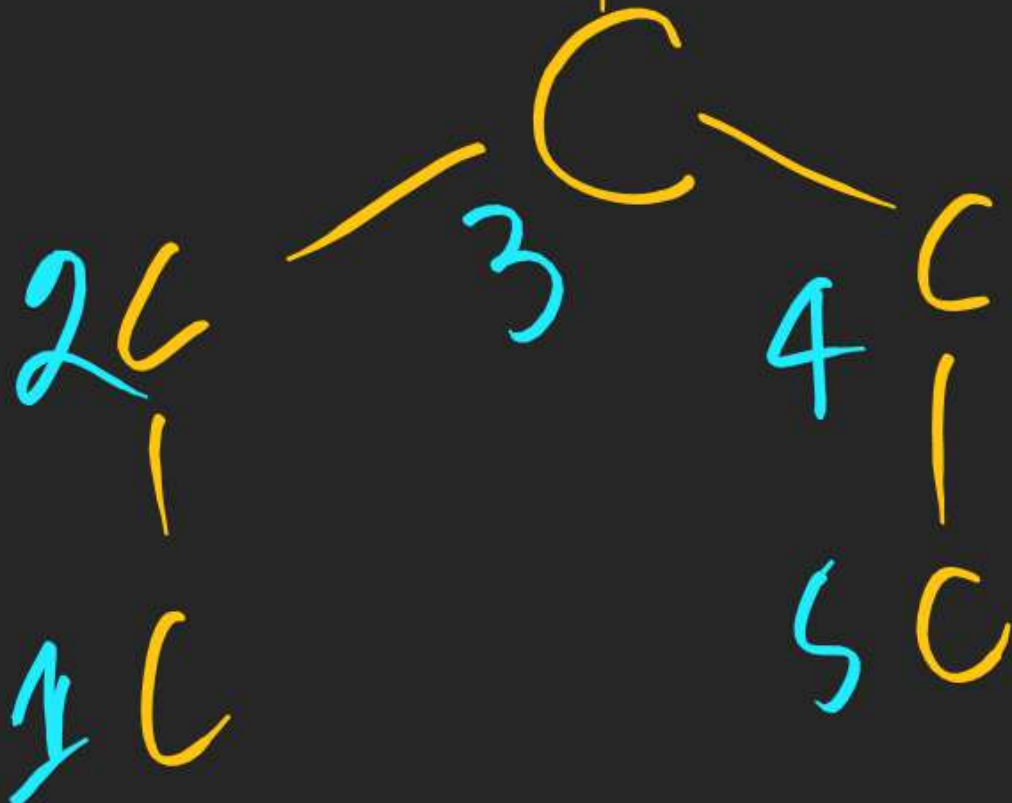
(45)

Diethyl Bromo methane

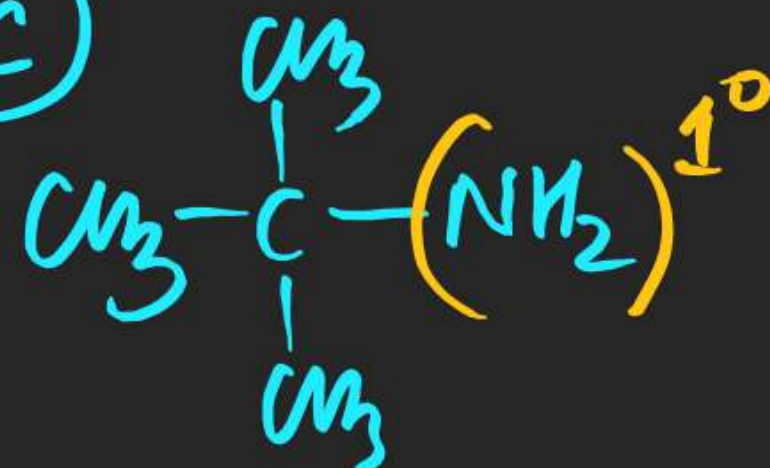
2°P

2°P

WR 1°S



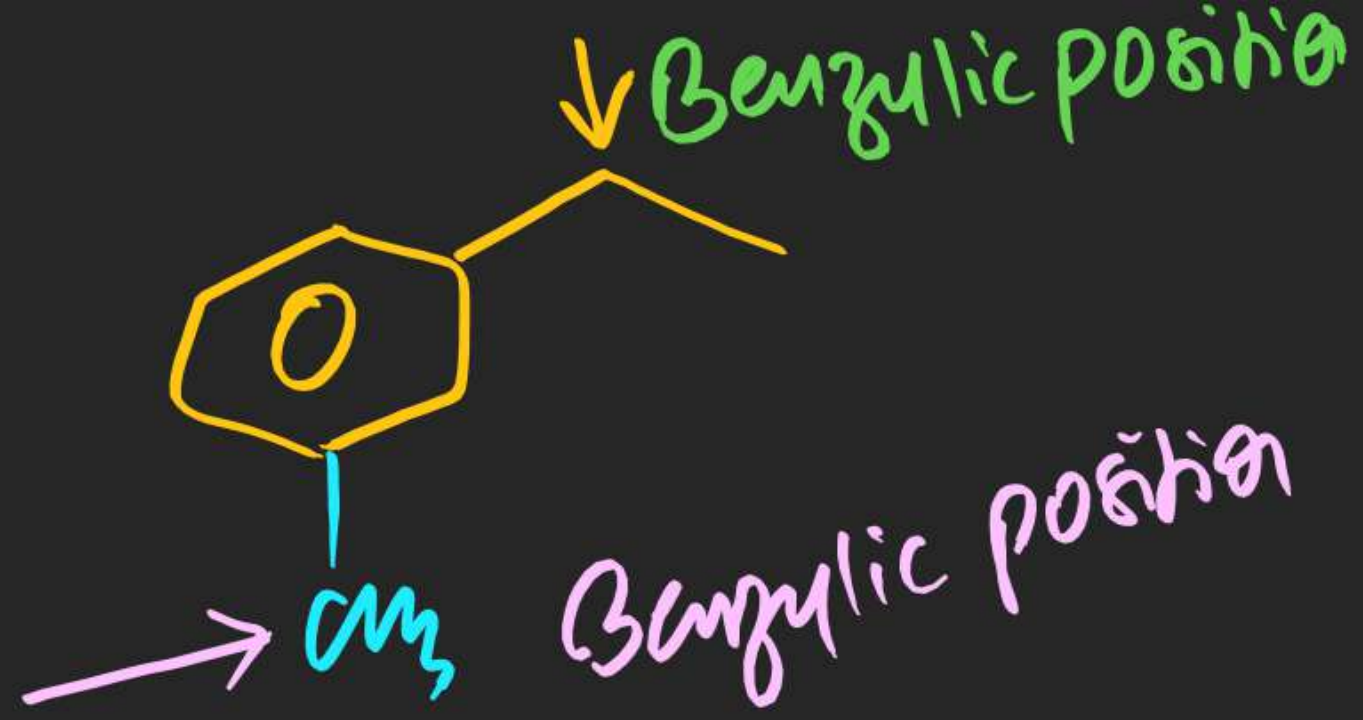
(40) (C)



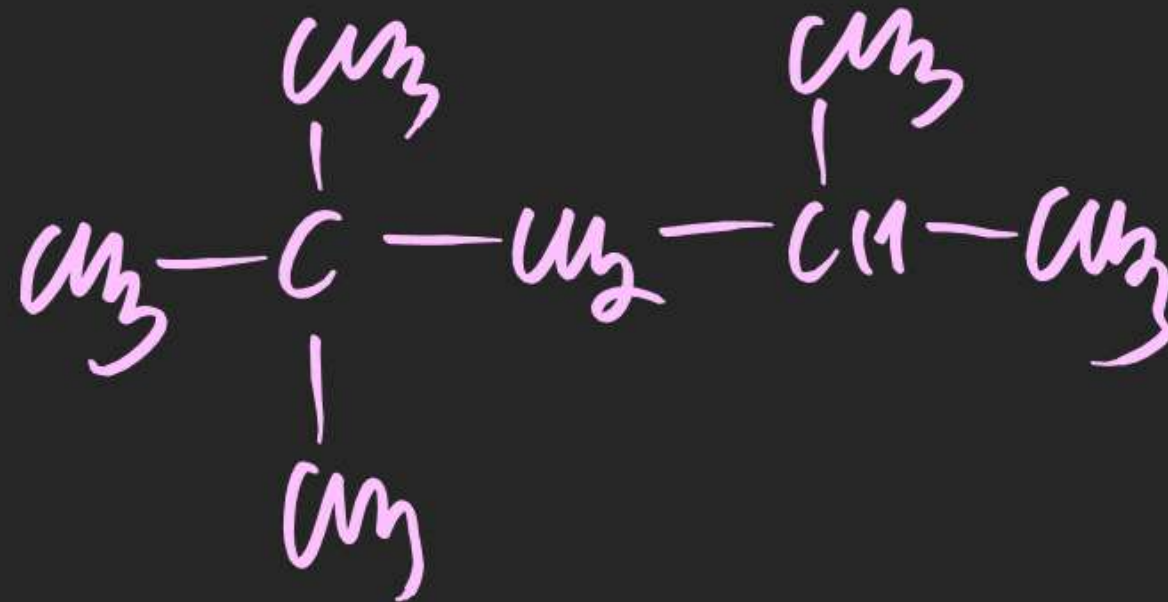
(D)



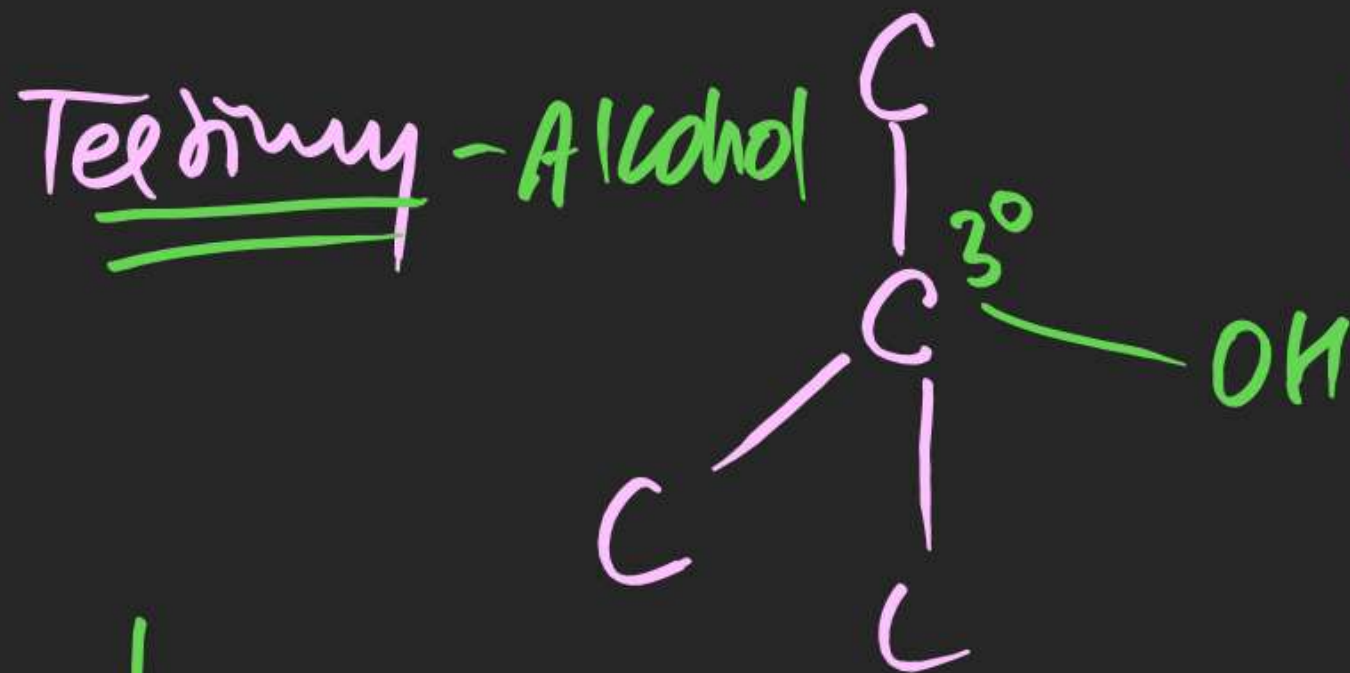
(50) Benzylic



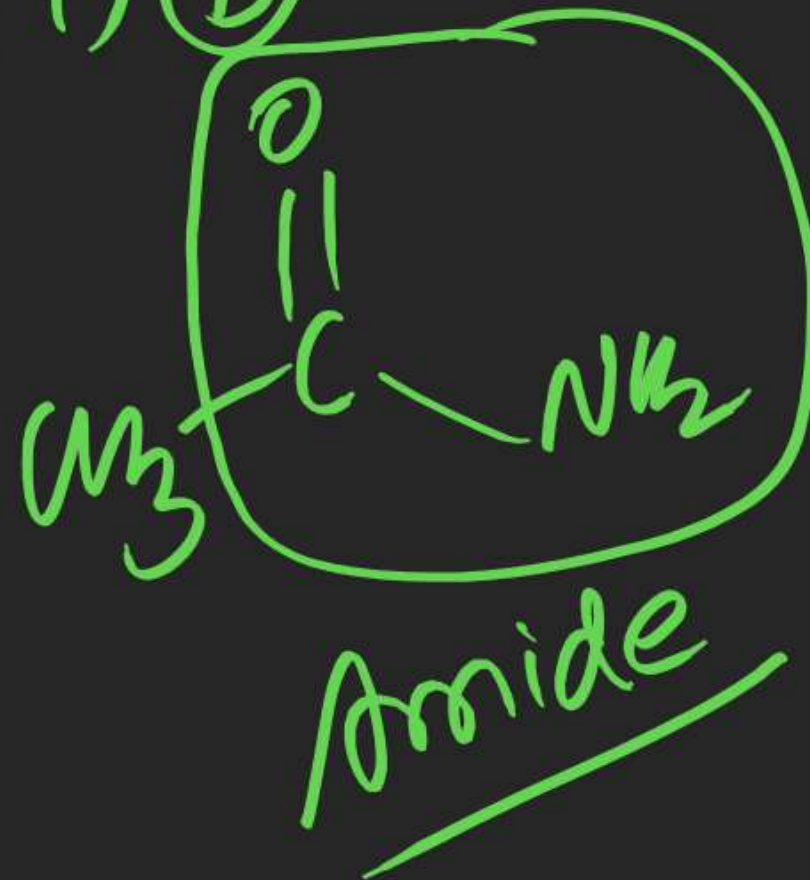
(53) Isooctane



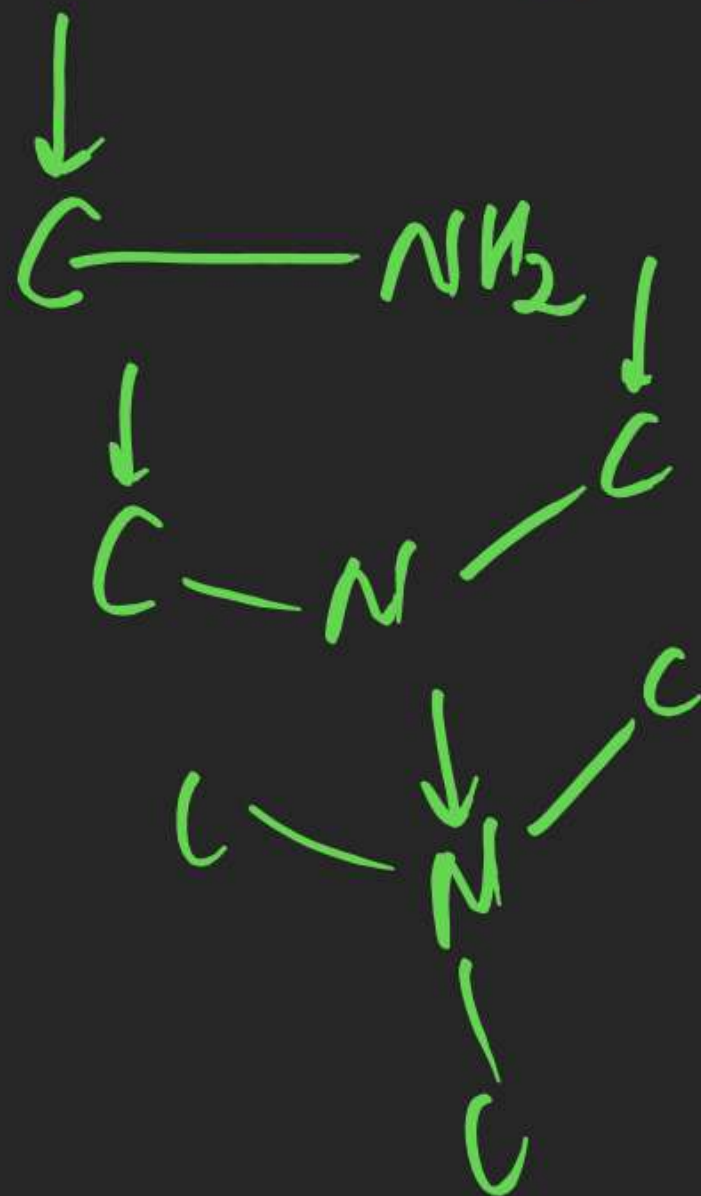
(55)



(59) (D)



(57)



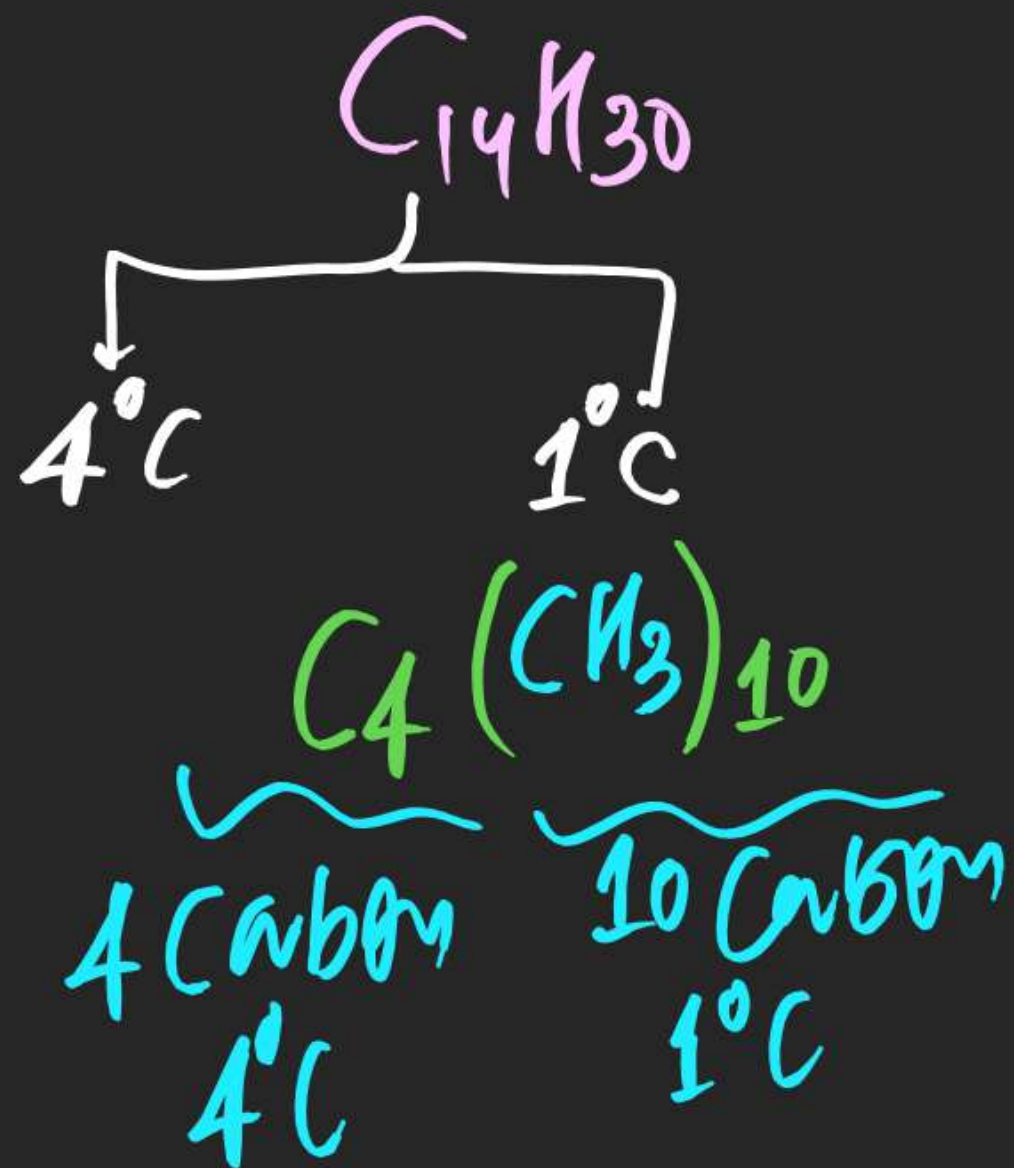
(65)

HydroCarbon Alkane

$$C_n H_{2n+2} \quad mw = 12 \times n + 1 \times (2n+2)$$

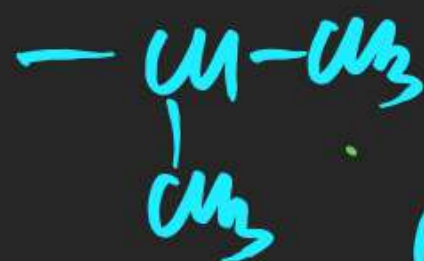
$$= 14n + 2 = 198$$

$$\boxed{n=14}$$

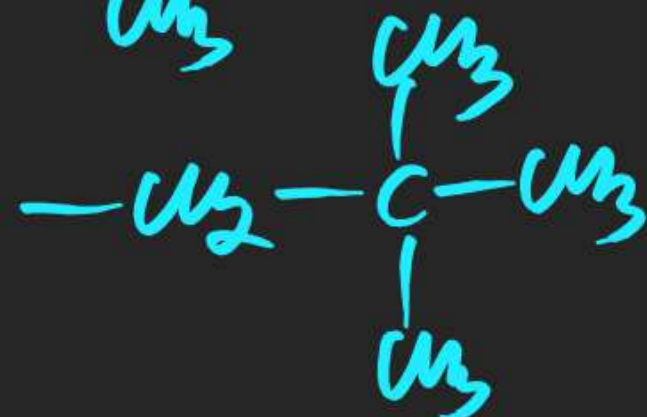


(69)

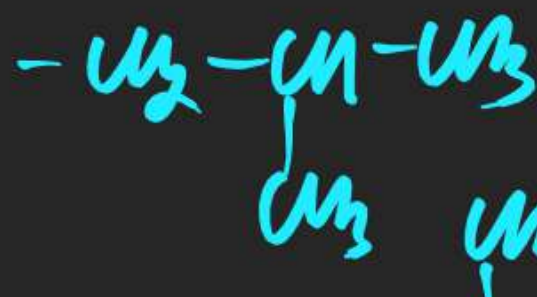
isopropyl



neo-pentyl



iso-Butyl



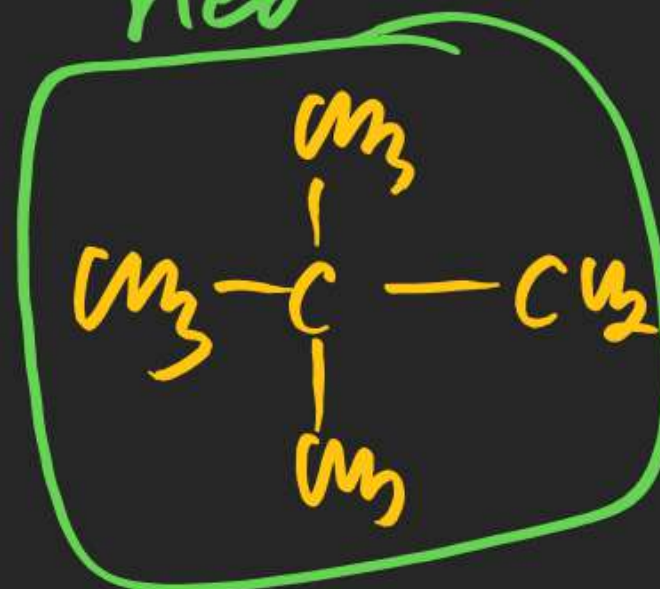
neo hexyl



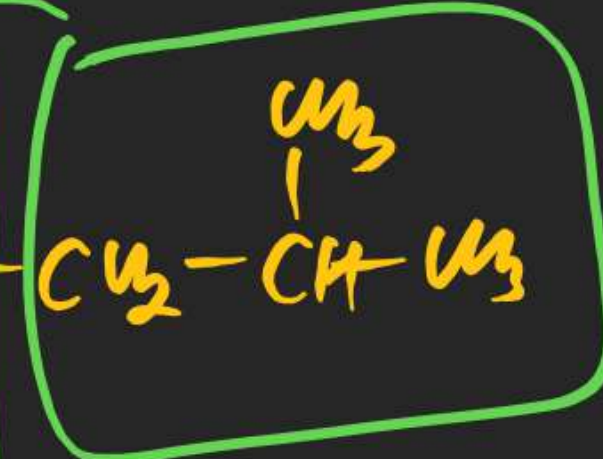
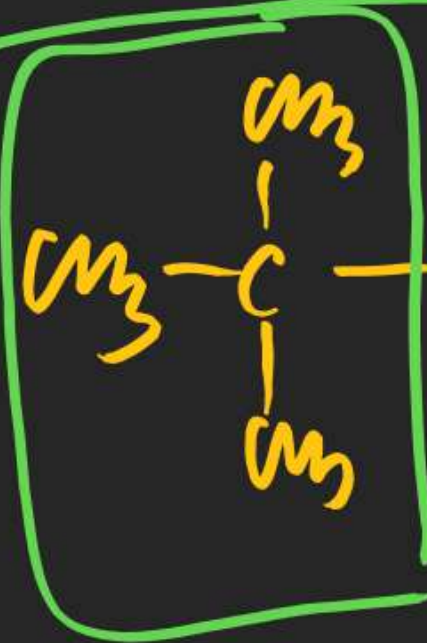
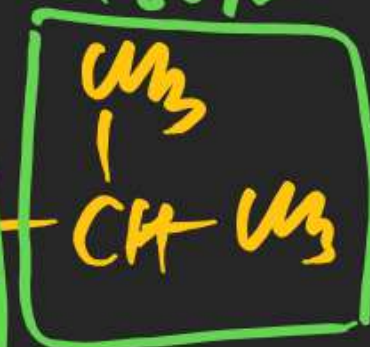
t-Butyl



neo

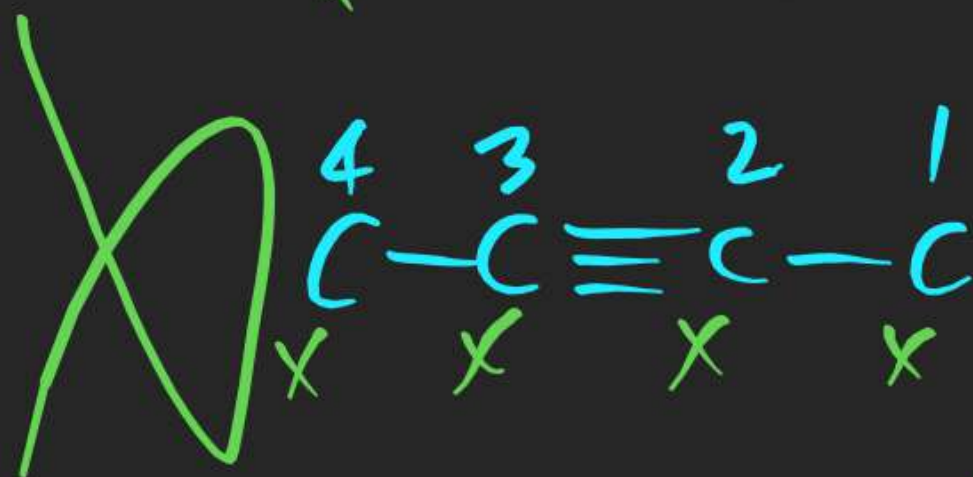
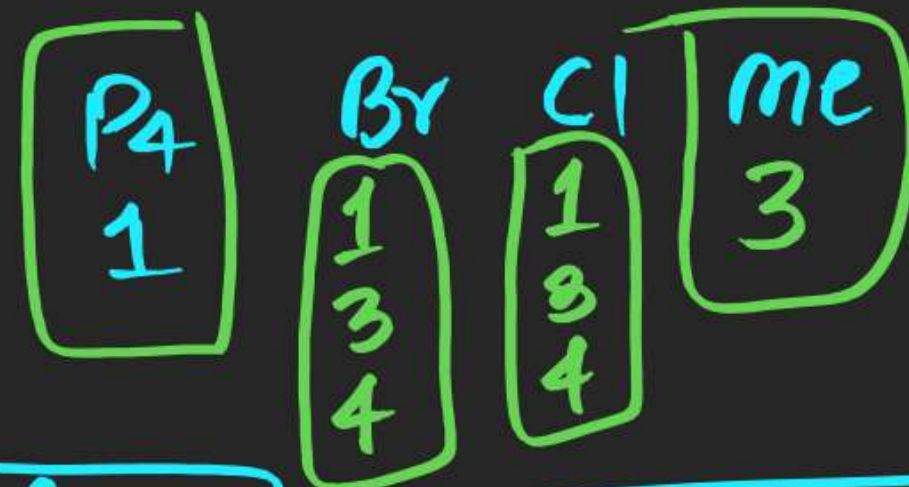
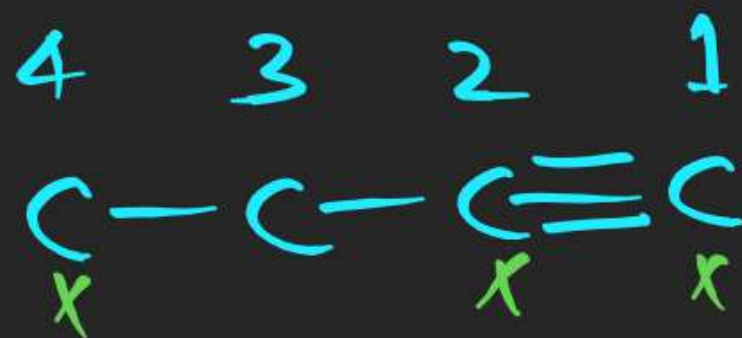


isop



(60)

P<sub>1</sub>-Bromo - P<sub>2</sub>-Chloro - P<sub>3</sub>-methyl But-P<sub>4</sub>-yne  
 2°P      2°P      2°P      WR      1°Sub.



BB

70-100