Doubt Clearing Session

Course on Nomenclature of Organic Compounds for Class XI

SURENDRA K MISHRA • Lesson 8 • July 1, 2021

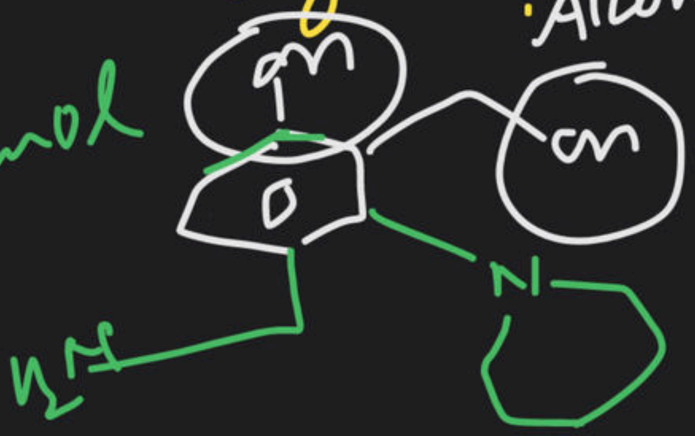
(iii) Ans

different f.group = 2 ($-C(=O)OH$ & $-OH$)

IHD = 3

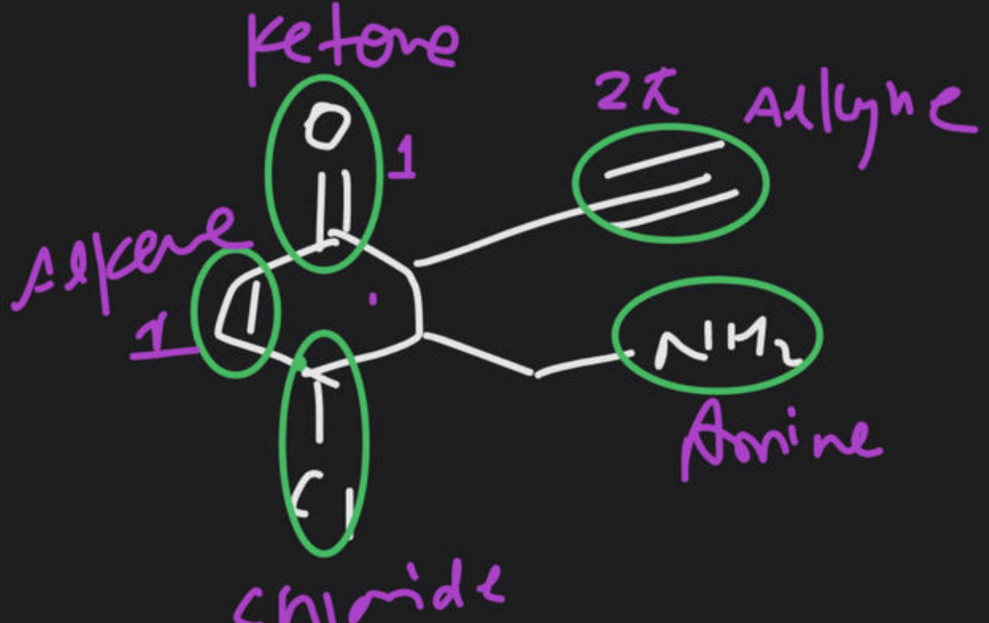
(iv) $\frac{\text{Dr.y}}{x}$ $\frac{\text{IHD}}{+y = ?}$

Phenol



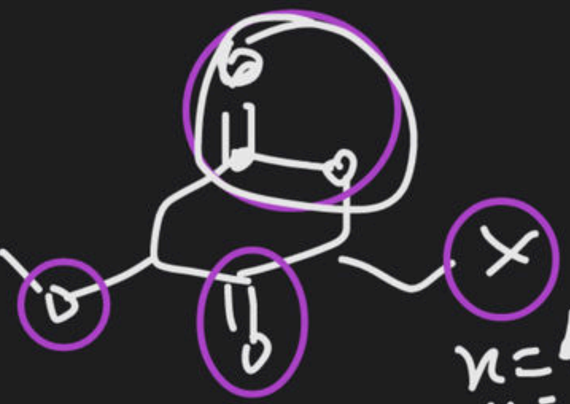
Alcohol

(A) 9
(B) 10
(C) 11
(D) 12
(E) 8



(v) $x = 4$, $y = 5$

(vi)



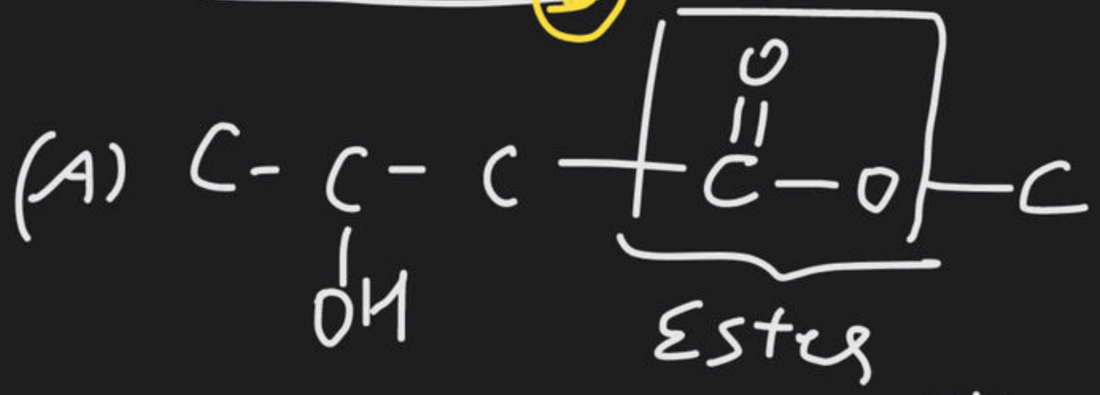
$x = 5$
$y = 5$

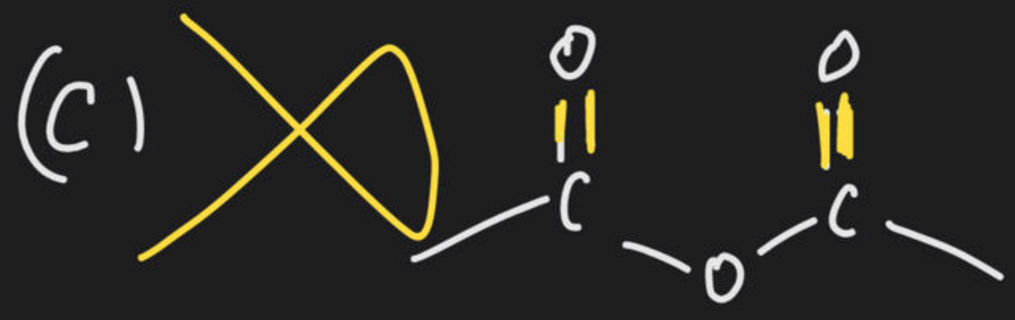
10

Book !:

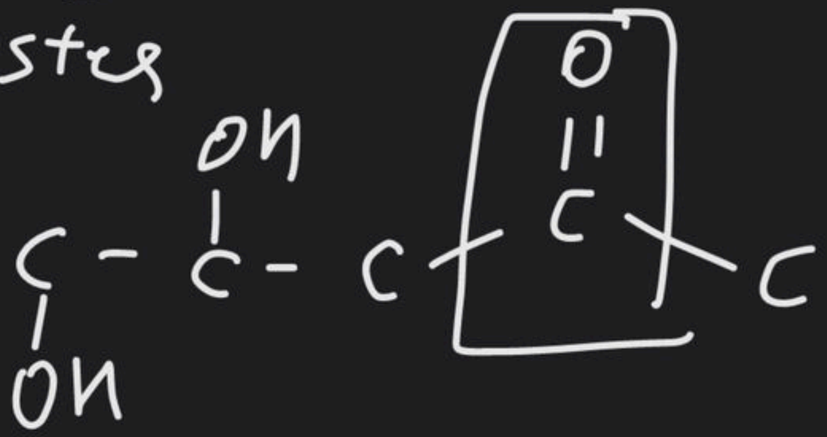
(4) $C_5H_{10}O_3$ Maxim

(X) $\pm HD = 1$

(A) 

(C) 

(D) 

(B) 

(12)

iso- octane

neopenta

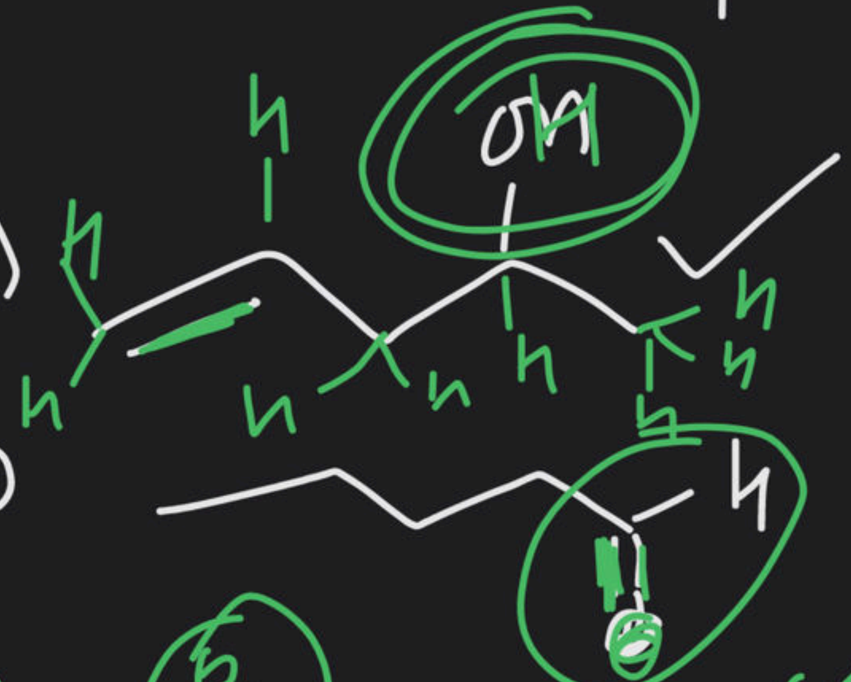
(31)

$C_5H_{10}O$

$(\pm nD = .1)$

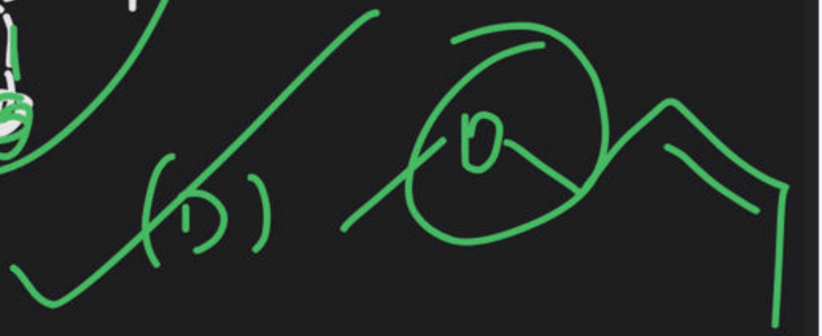
(A)

(B)



(C)

(D)



(33) $C_6H_6 \Rightarrow$ IND = 4 = DBE = DOU

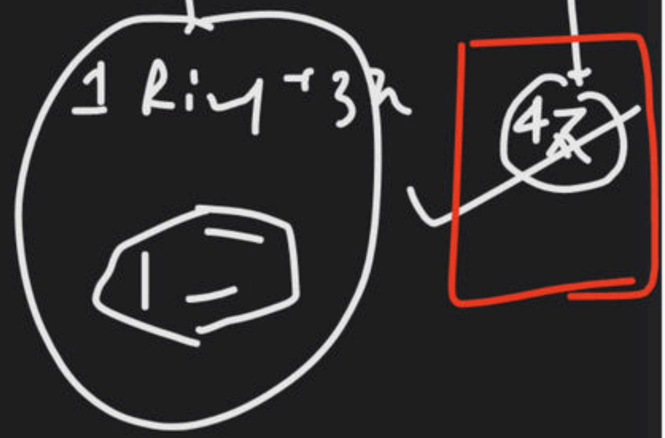
4 Ring

3 Ring + 1 π

2 Ring + 2 π

1 Ring + 3 π

4 π



(34) (A) $CH_2=C=CH_2$ Allene

(B)

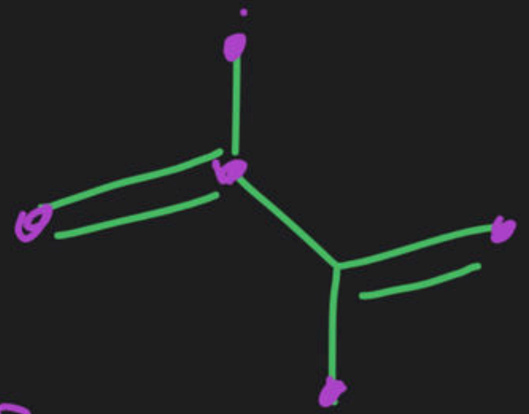
(C) 2 Ring . IND = 2

(D) Cyclo + Alkene

IND = 1 + 1 = 2

(38) Acyclic ⇒ No cyclic ⇒ open chain

(39)



C_6H_{10}

IHD = 2

isomer

C_6H_{10}

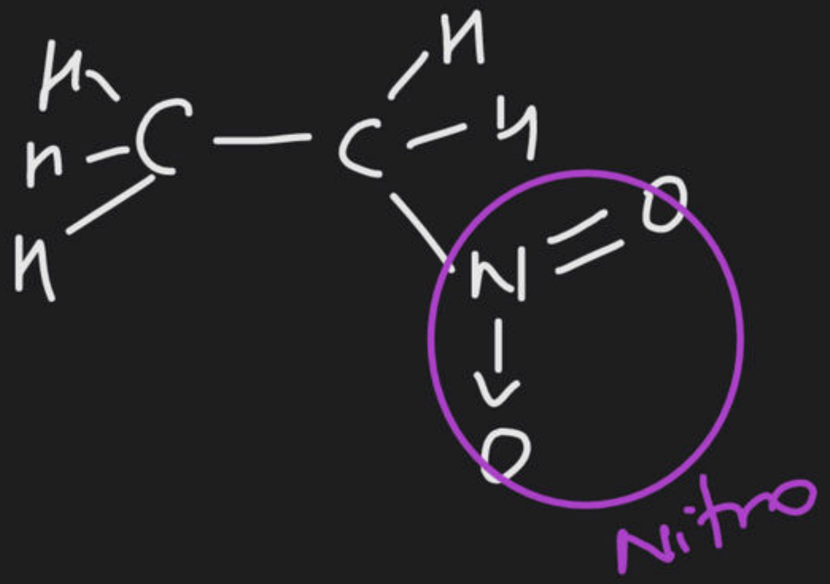
(A) 1 (B) 3 (C) 3 (D) 2

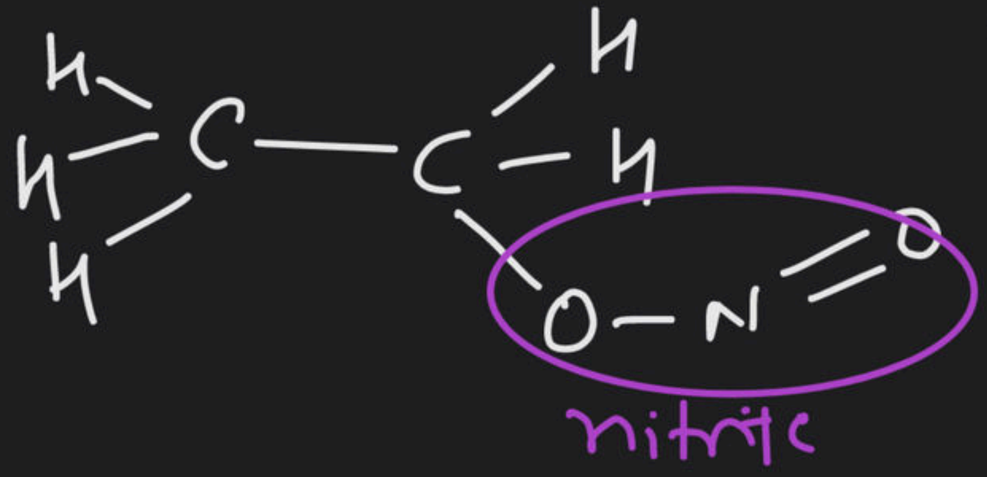
Book:- Cengage Publication 3e

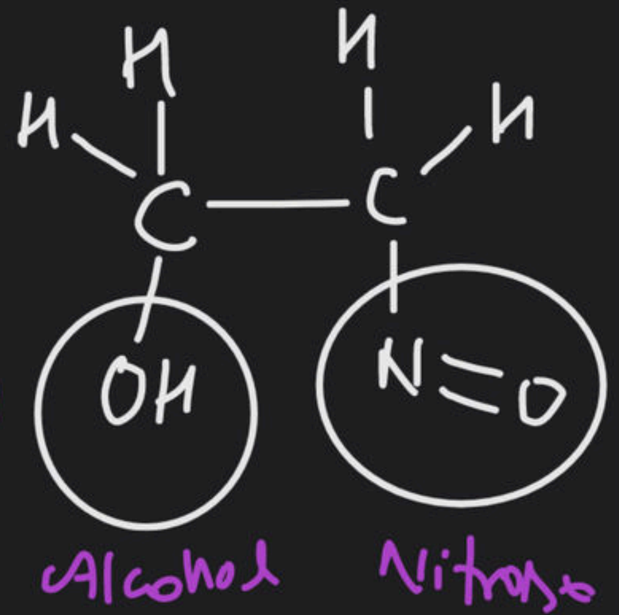
Problems & solutions of Organic chemistry

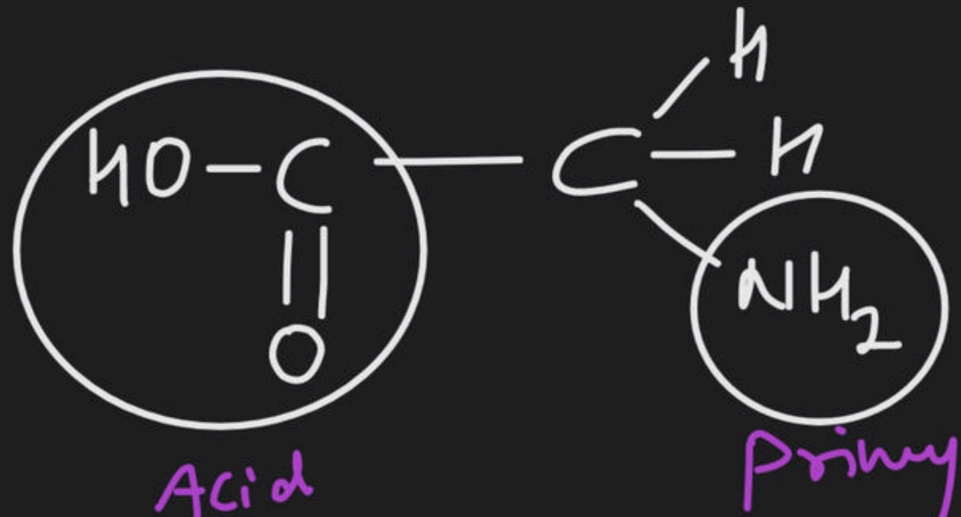
(Sunedra K. Mishra)

(6) $C_2H_5O_2N$ (Mol. Formula)

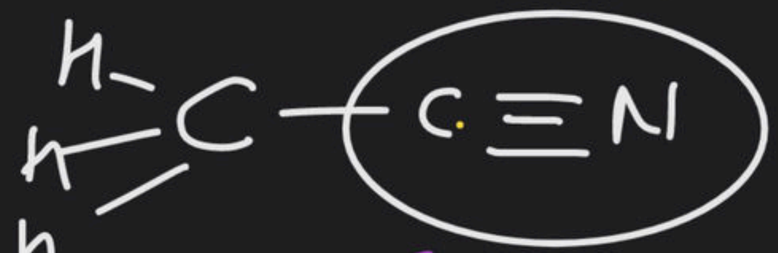




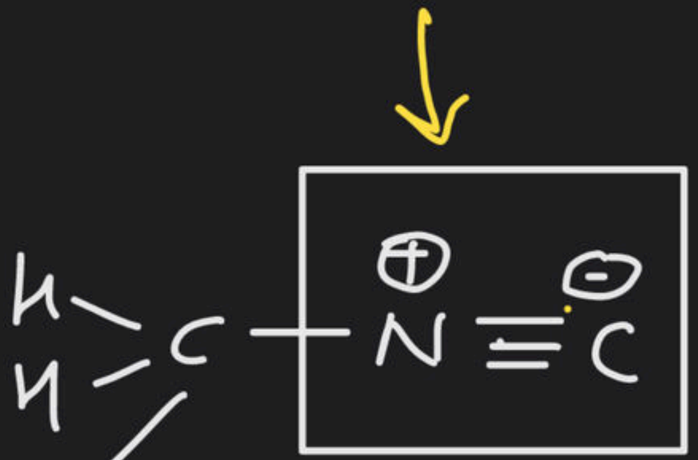




(7) C_2H_3N



Cyanide



iso-Cyanide

2

(8)

phenol

Alcohol

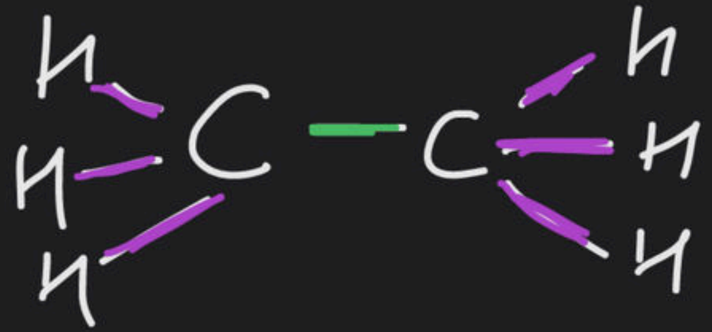
(9) Total number of different functional compounds with

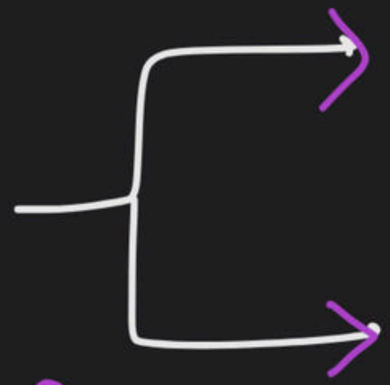
Group are possible.

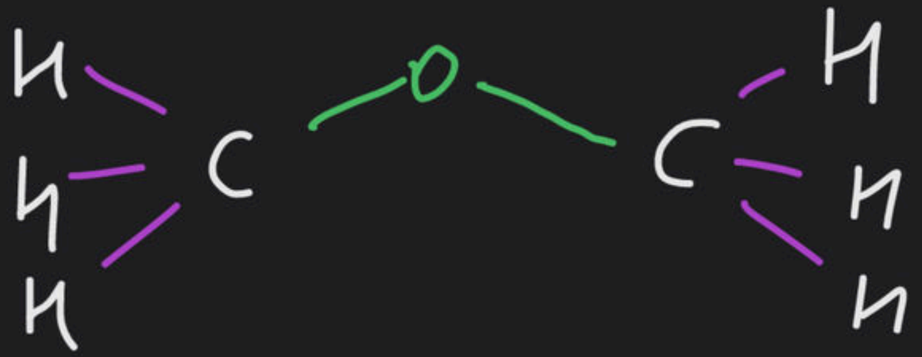
(A) 1 (B) 2
(C) 3 (D) 4

(9) C_2H_6O (IHD = 0) ~~Cyclic~~

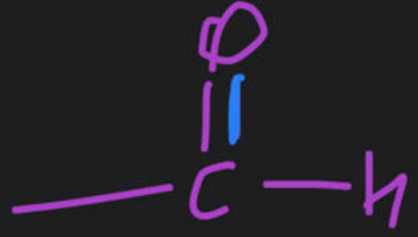
~~π-Bond~~

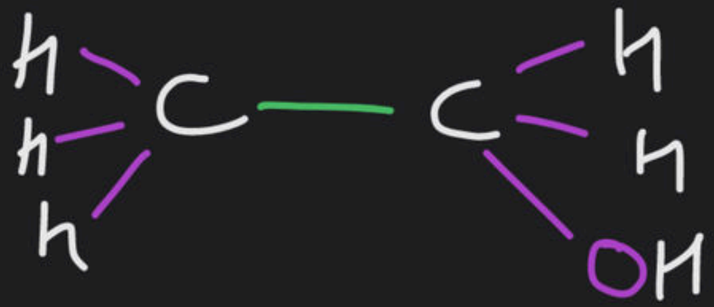




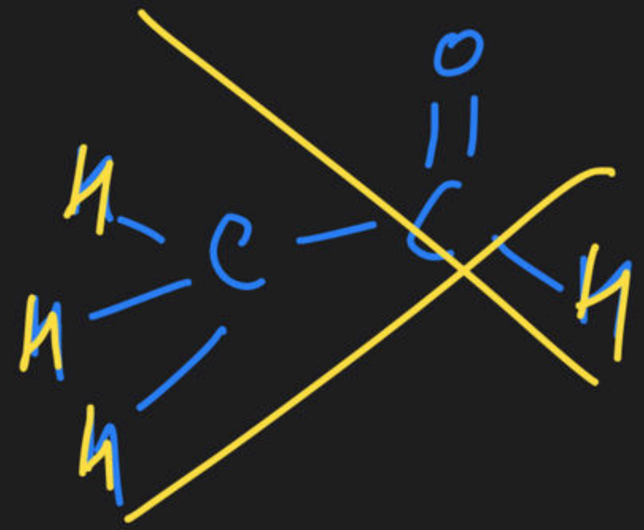


Ether





Alcohol



(A) 1 (B) 2

(C) 3 (D) 4

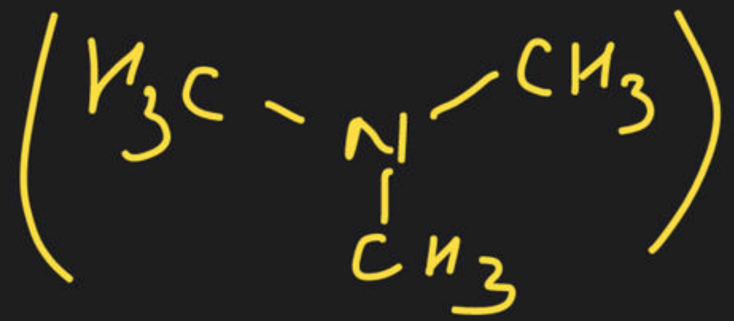
(10) C_3H_9N (IHD = 0)

~~Cyclic~~ ~~π Bond~~

Amine

$H_3C-CH_2-CH_2NH_2$

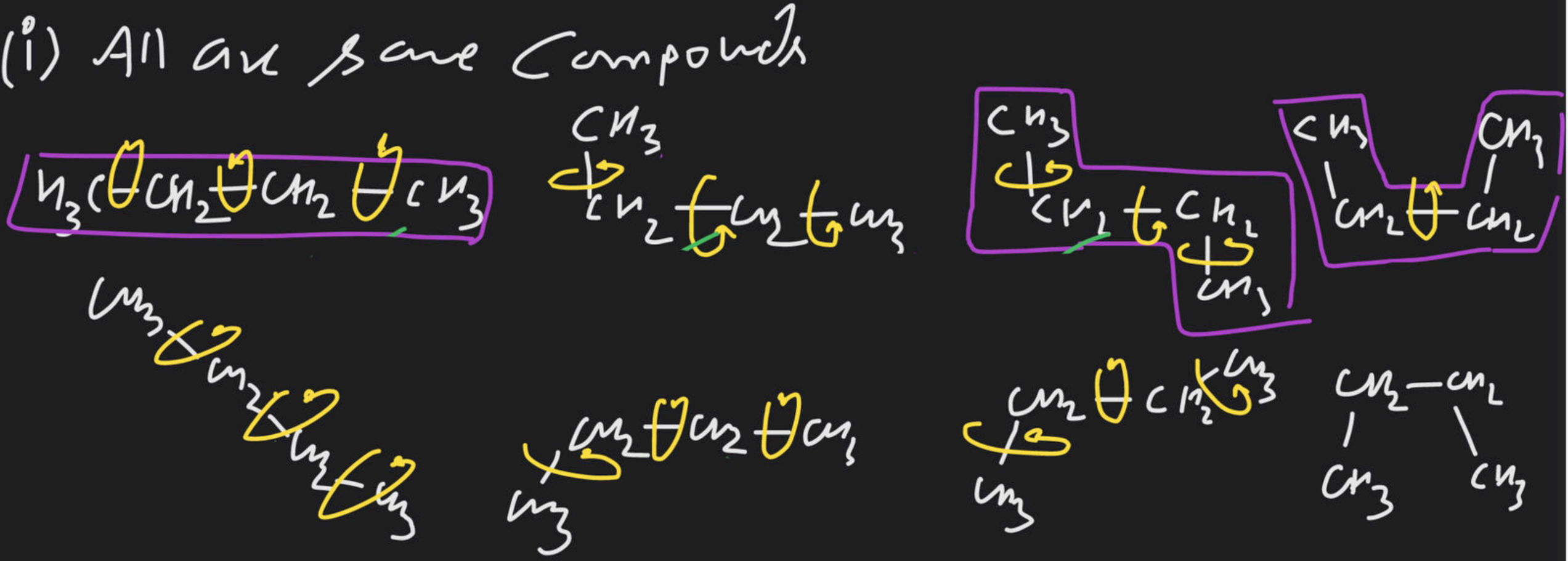
$CH_3-CH_2-NH-CH_3$



3

Note

(i) All are same Compounds

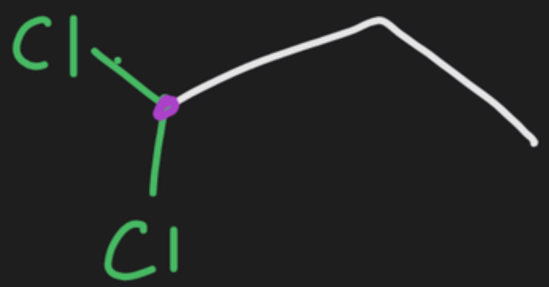
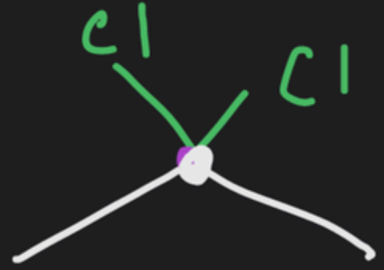


due to Rotation across Single Bond.

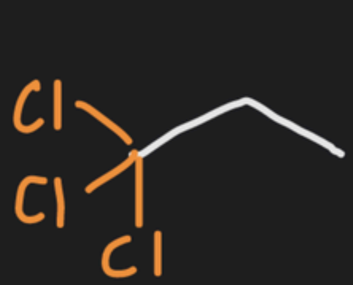
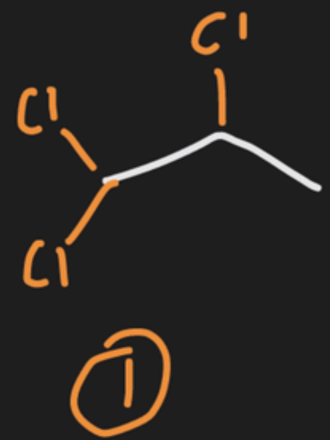
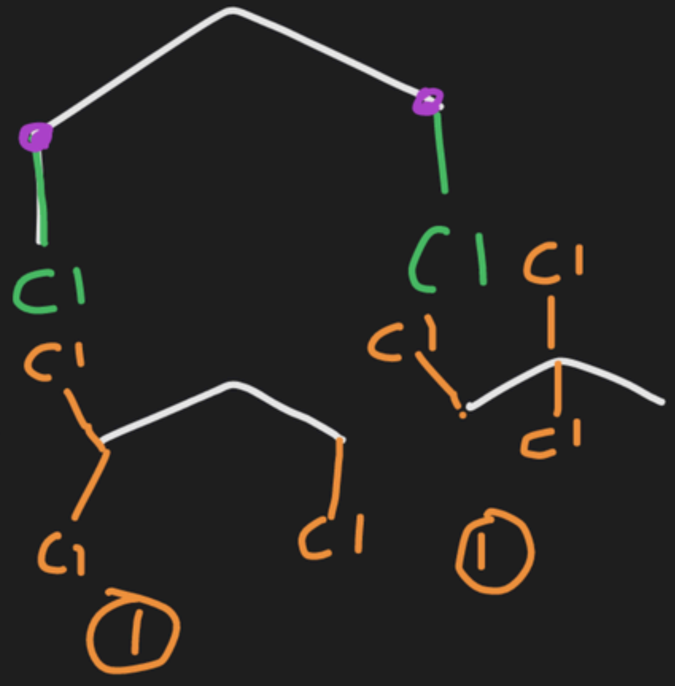
Total no. of possible structures

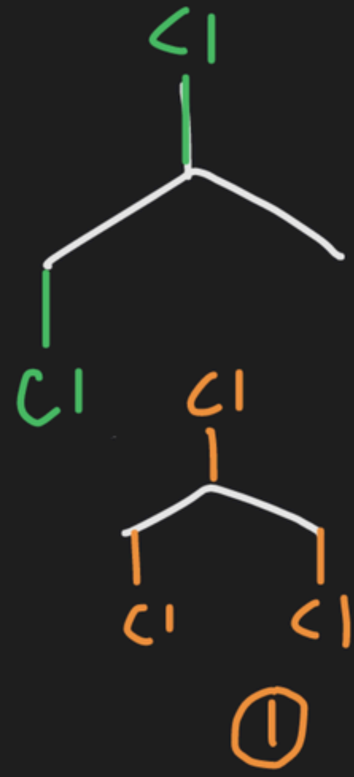
(11) $C_3H_6Cl_2$ (IHD = 0)

π bond Cycle

(12) $C_3H_5Cl_3$



(13) C_3H_6ClBr

(14) C_2H_3FClBr

(15) $C_2H_4Cl_2$

(16) $C_2H_3Cl_2F$

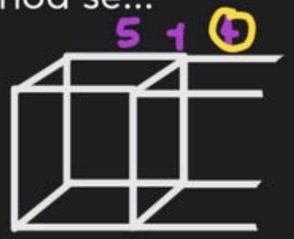
(17) $C_3H_2Cl_6$

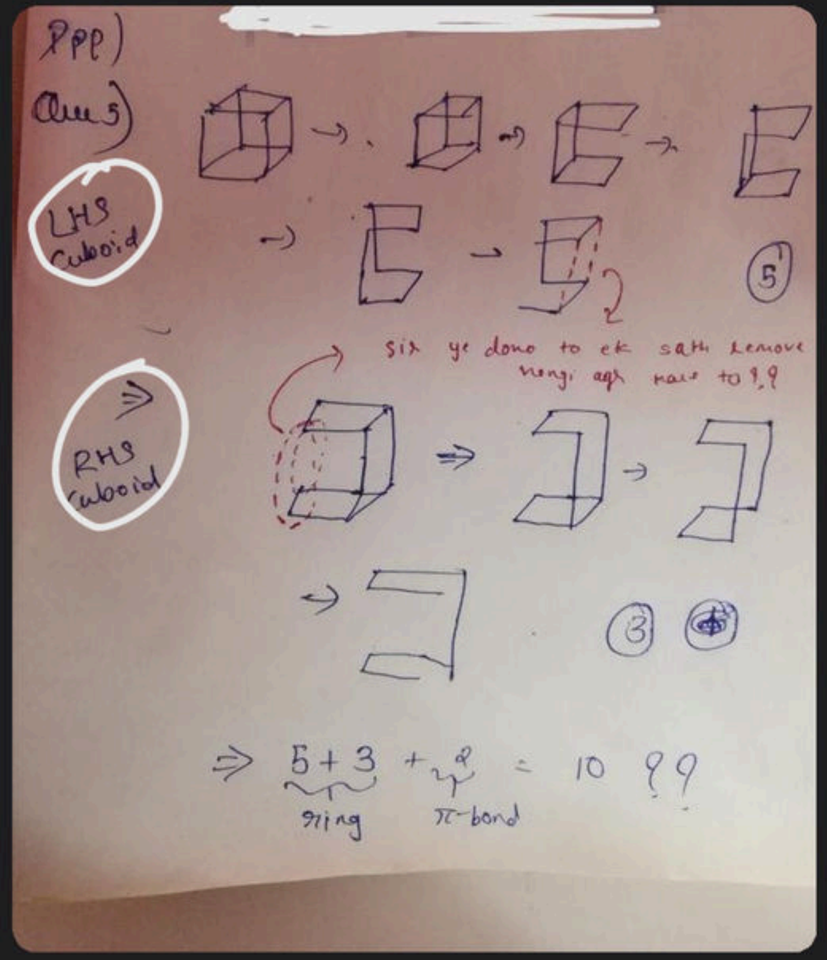
(18) $C_3D_3Cl_3$

Question

from Varun Jain

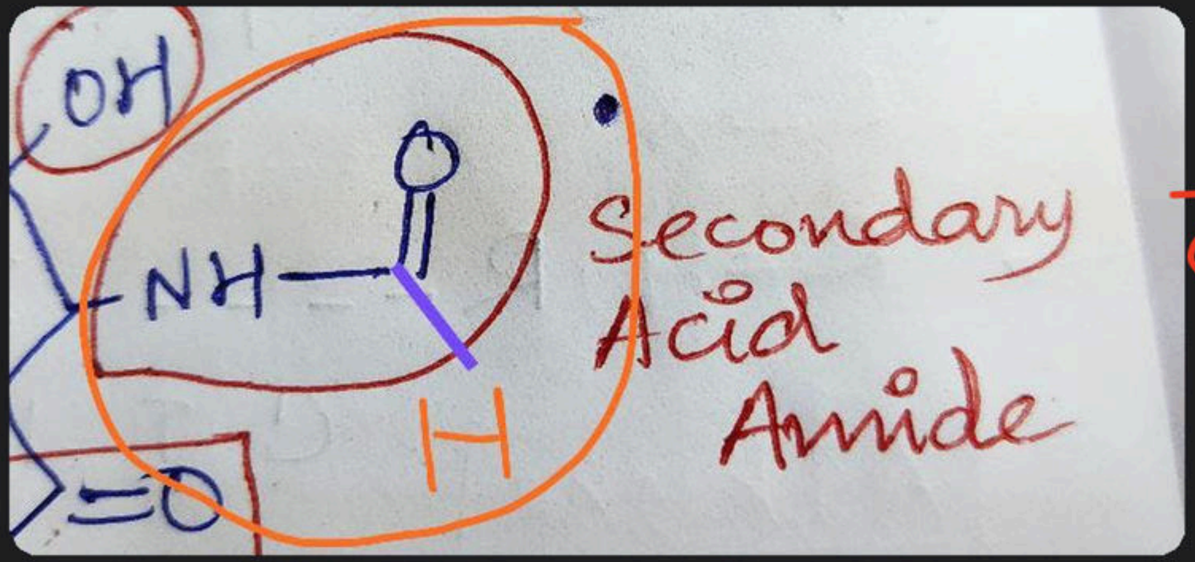
sir isme 5+3 aa rha hai sides hatane wali method se...

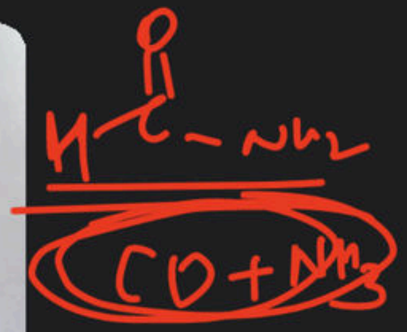




Question
from ARITRA AMBUDH DUTTA

SIR IN ACID AMIDE DEFINITION YOU TOLD THE R ATTACHED WITH C CAN'T BE H(IT'S UNSTABLE). BUT IN THIS CLASS ILLUSTRATION... IT'S THERE.... WHAT'S TO DO?





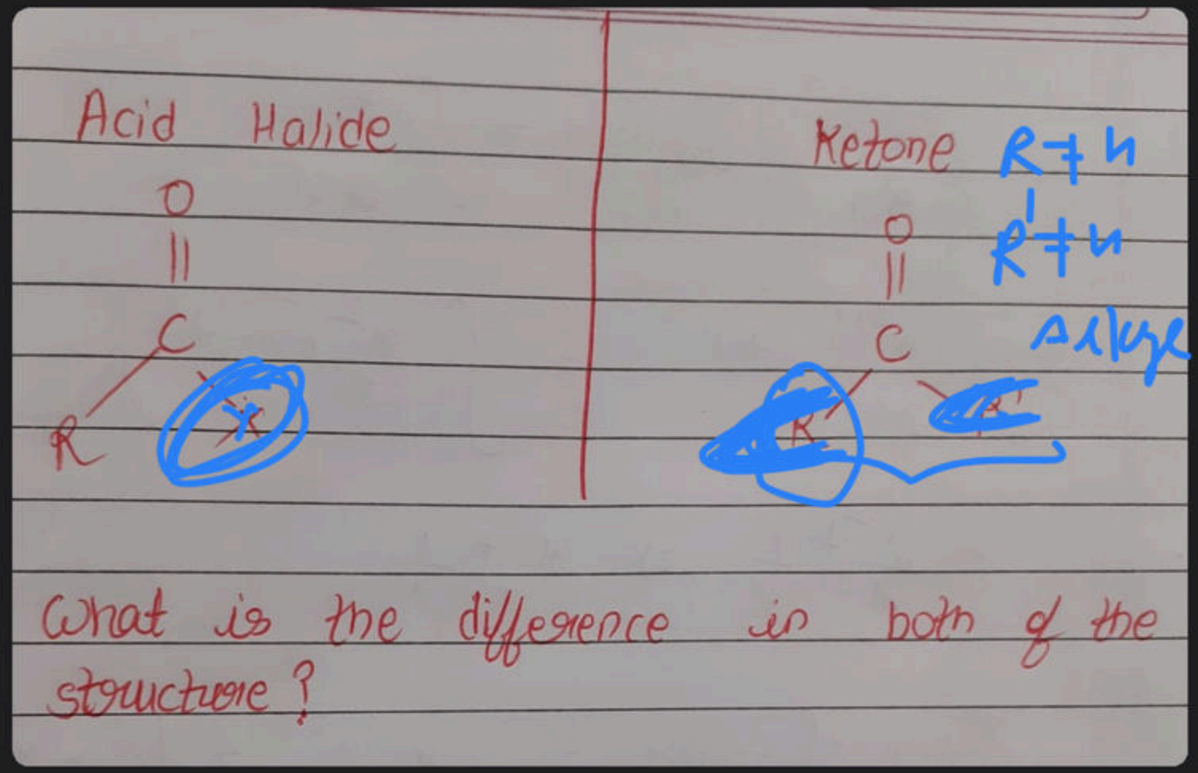
Question
from Abir Biswas

Sir apka birthday gift

Question

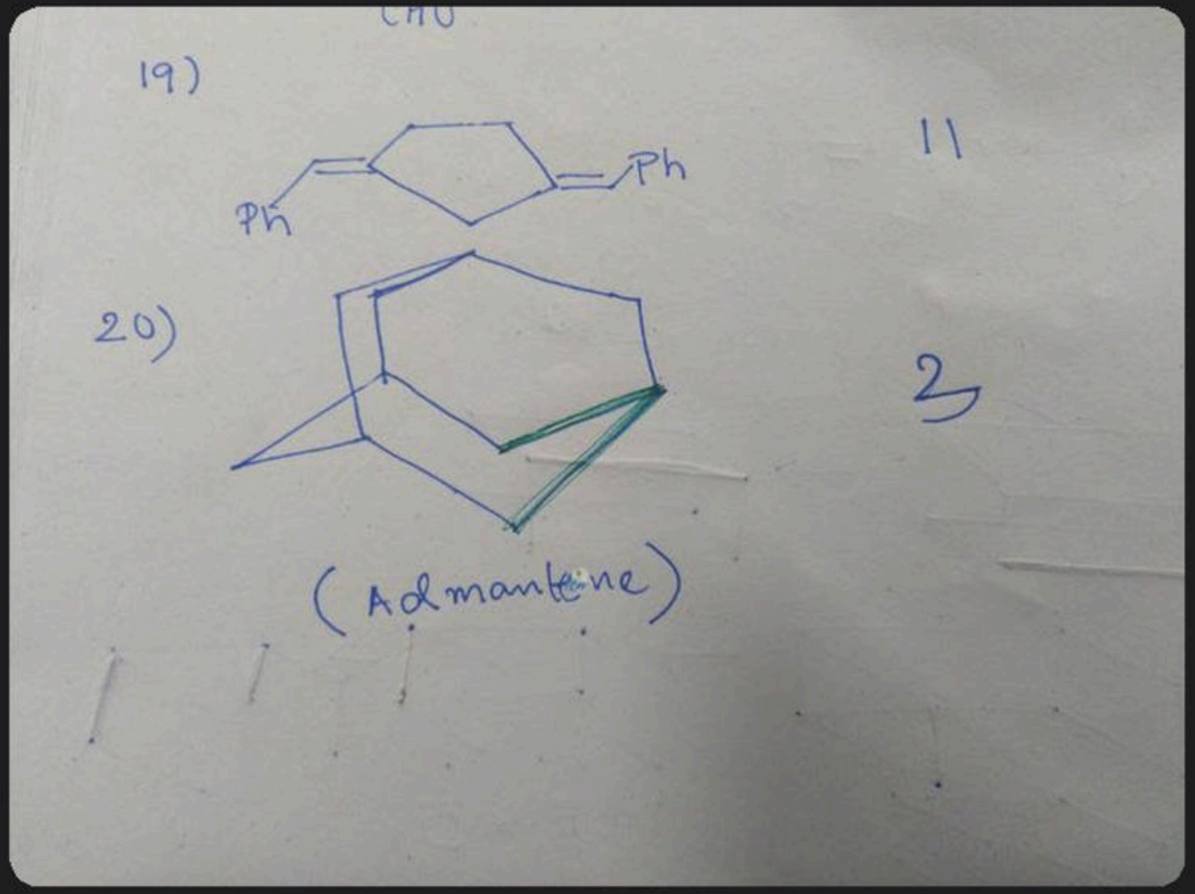
from Yuvraj Bansal

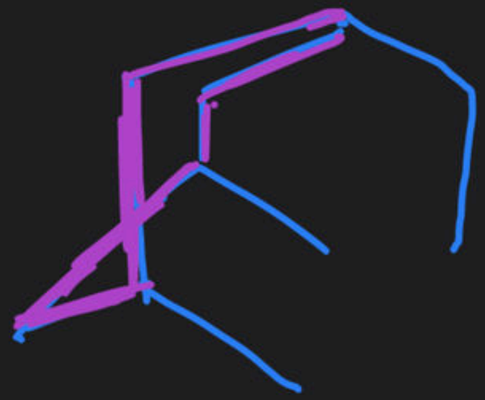
R' ki jagh hydrogen ke alava kuch bhi aa sakta h, aur X ki jagh kuch bhi aa sakta h to ye to same structures hee ho gaye ??



Question
from Akanksha Das

Sir, if we remove the coloured bonds, then dbe=2 please explain sir





Question
from KUMARI MEGHA GUPTA

sir esme kya galat h??