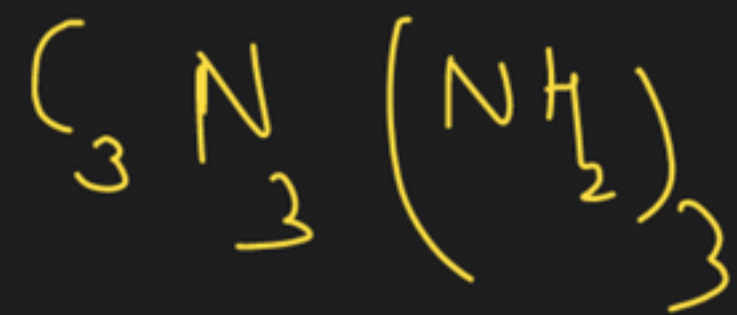
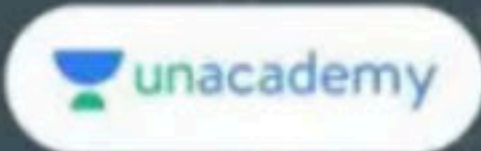




Hydrogen Bonding - II

Nurture: Course on Chemical Bonding for Class XI 2023





MONTHLY BATCH TESTS

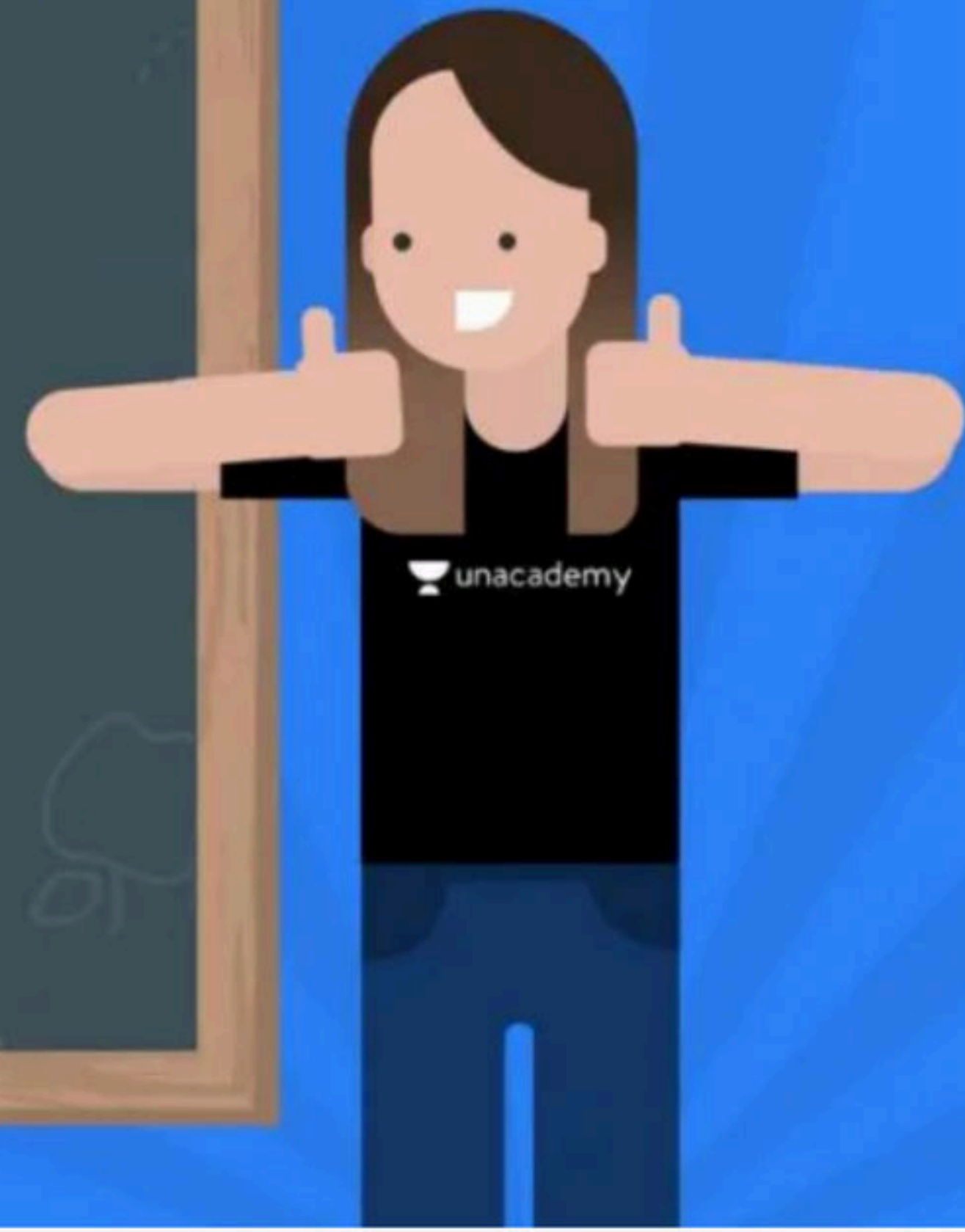
Conducted on the 25th of Every Month

Next TEST on September 25

🕒 5:30PM to 7:00PM

All the Best for your Exam. Let's Crack It !

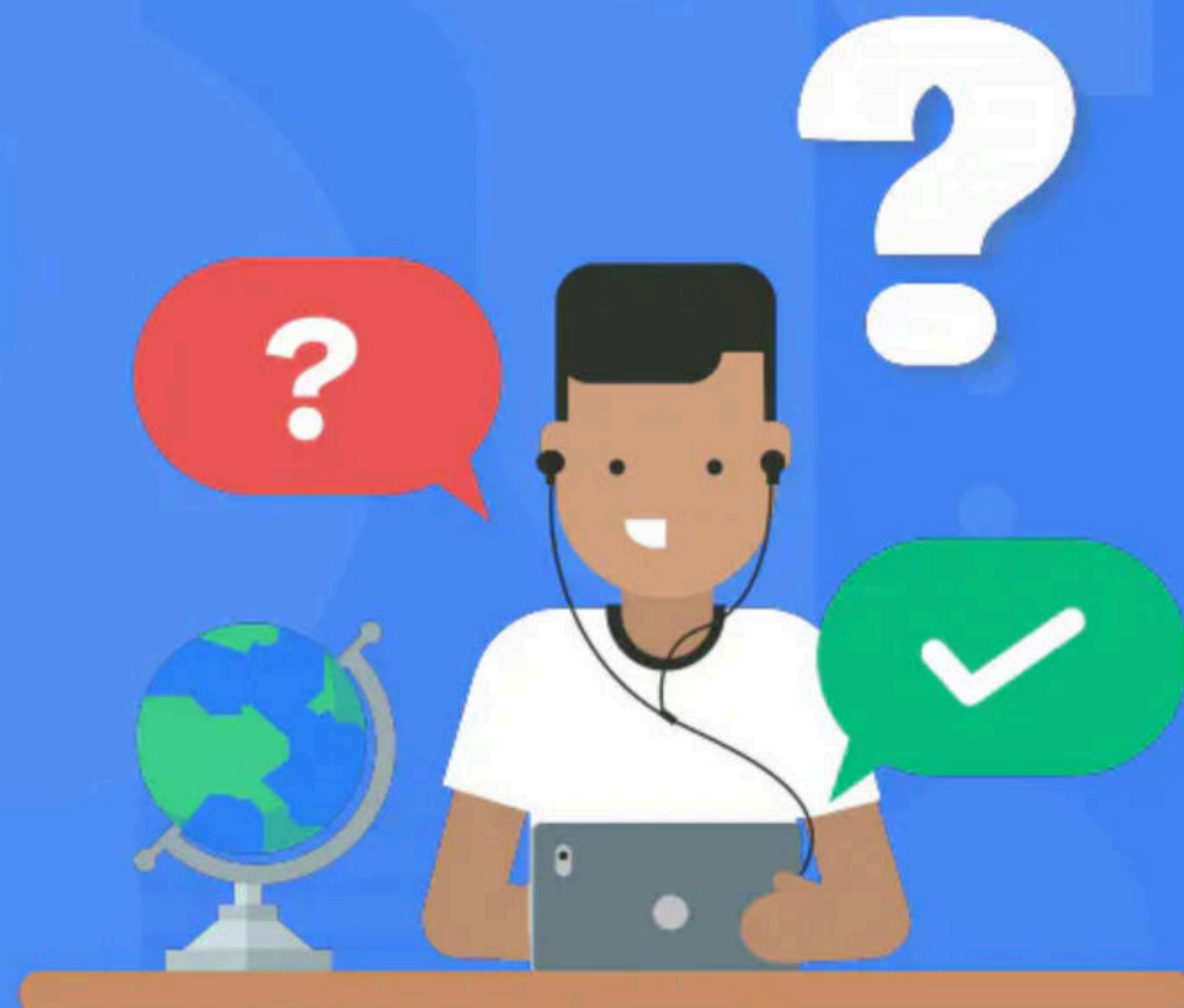
NOTE : Exam will show up on Your planner





Unacademy

Ask a Doubt





Unacademy Ask a Doubt

**Ask Unlimited
Doubts**

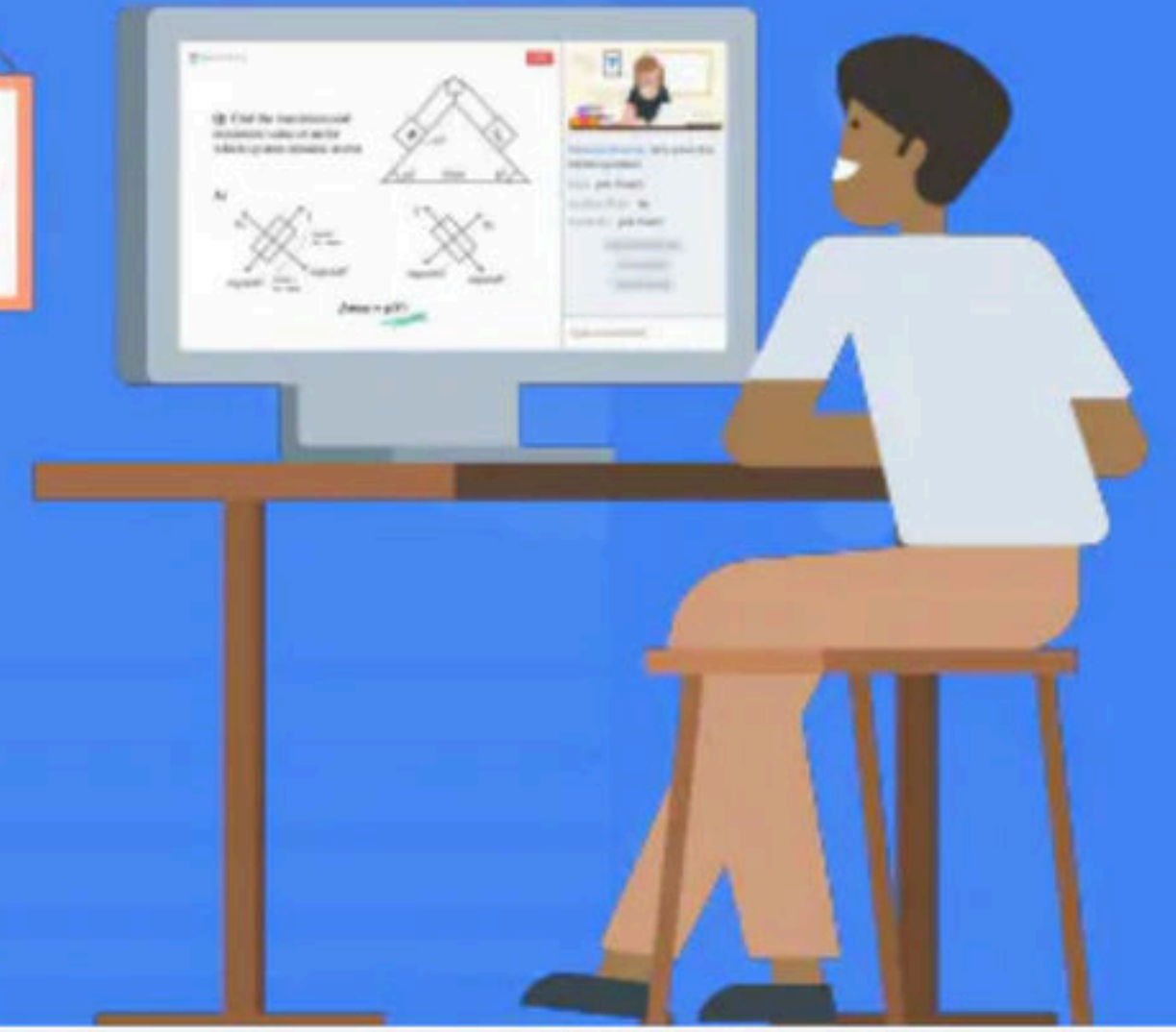
**Ask Doubts At
Any Time**

**Get High-quality Video
Solutions In English
& Hindi**

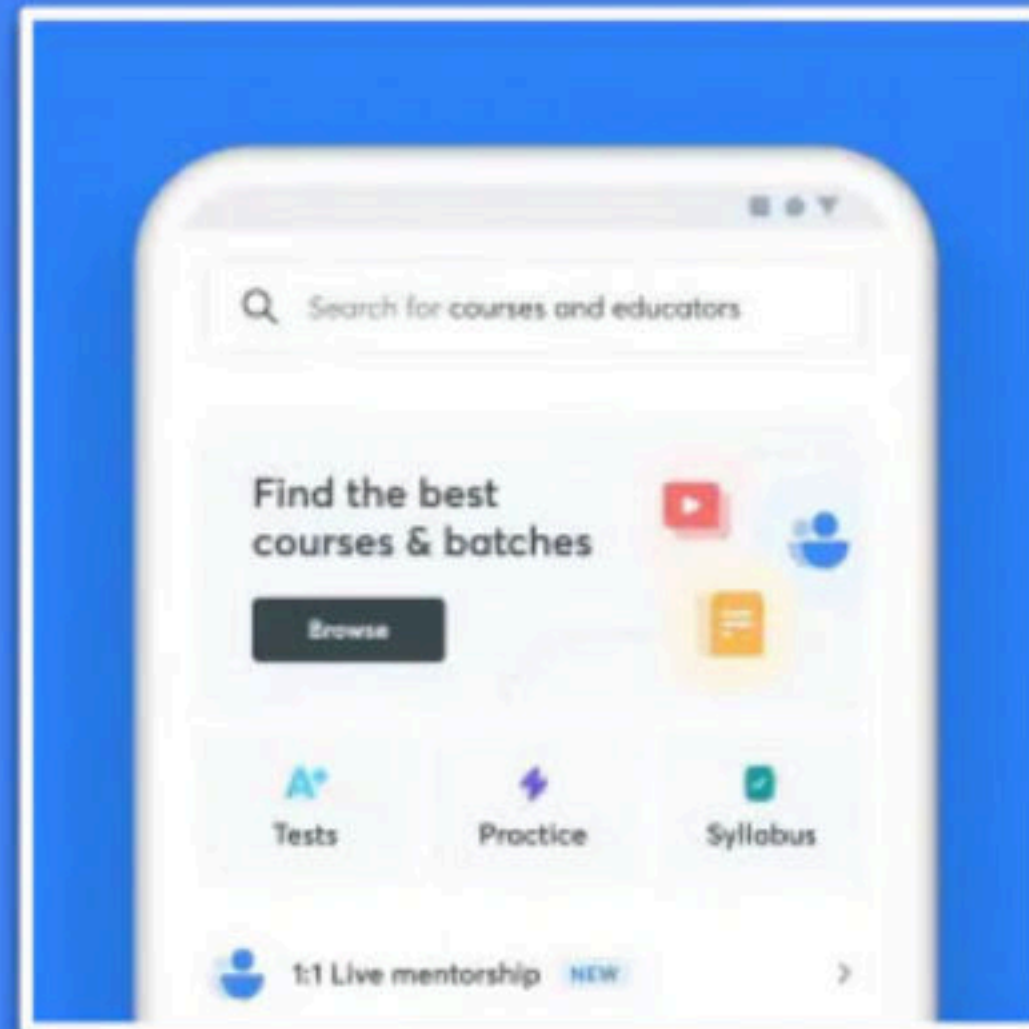
**Receive Exact Matches For
Questions**

**Obtain Instant And
Accurate Solutions To
Lakhs Of Questions**

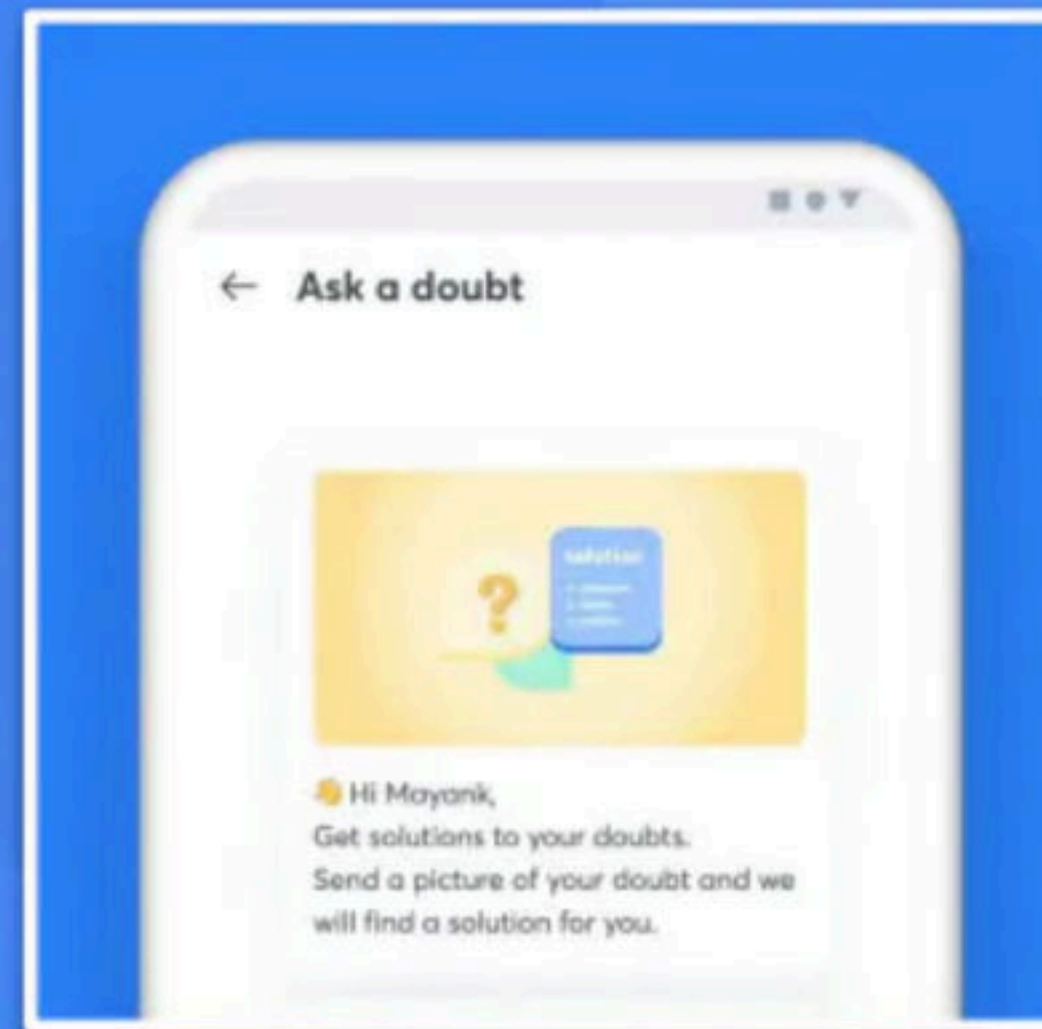
**Get Assistance With
Homework**



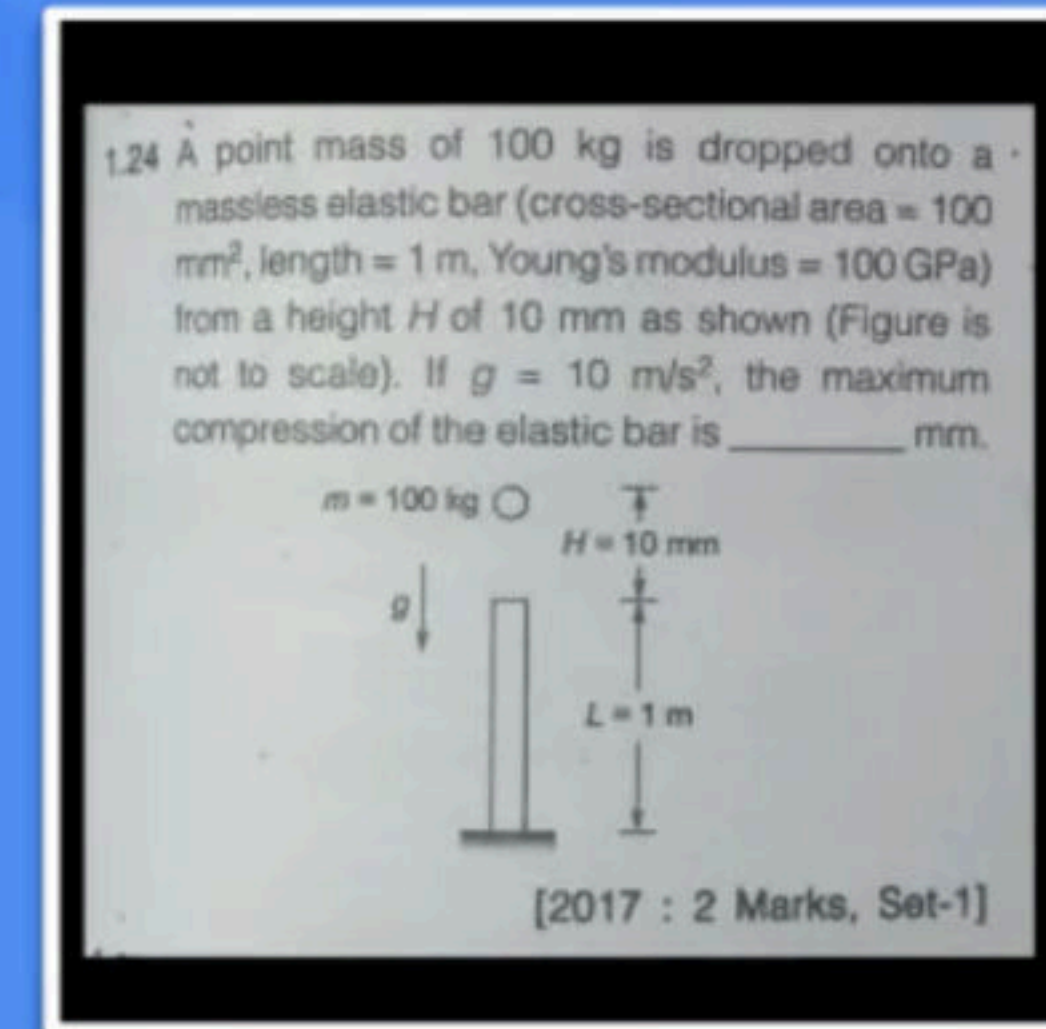
? How to Ask a Doubt



Step 1
Click on 'Doubts & solutions'

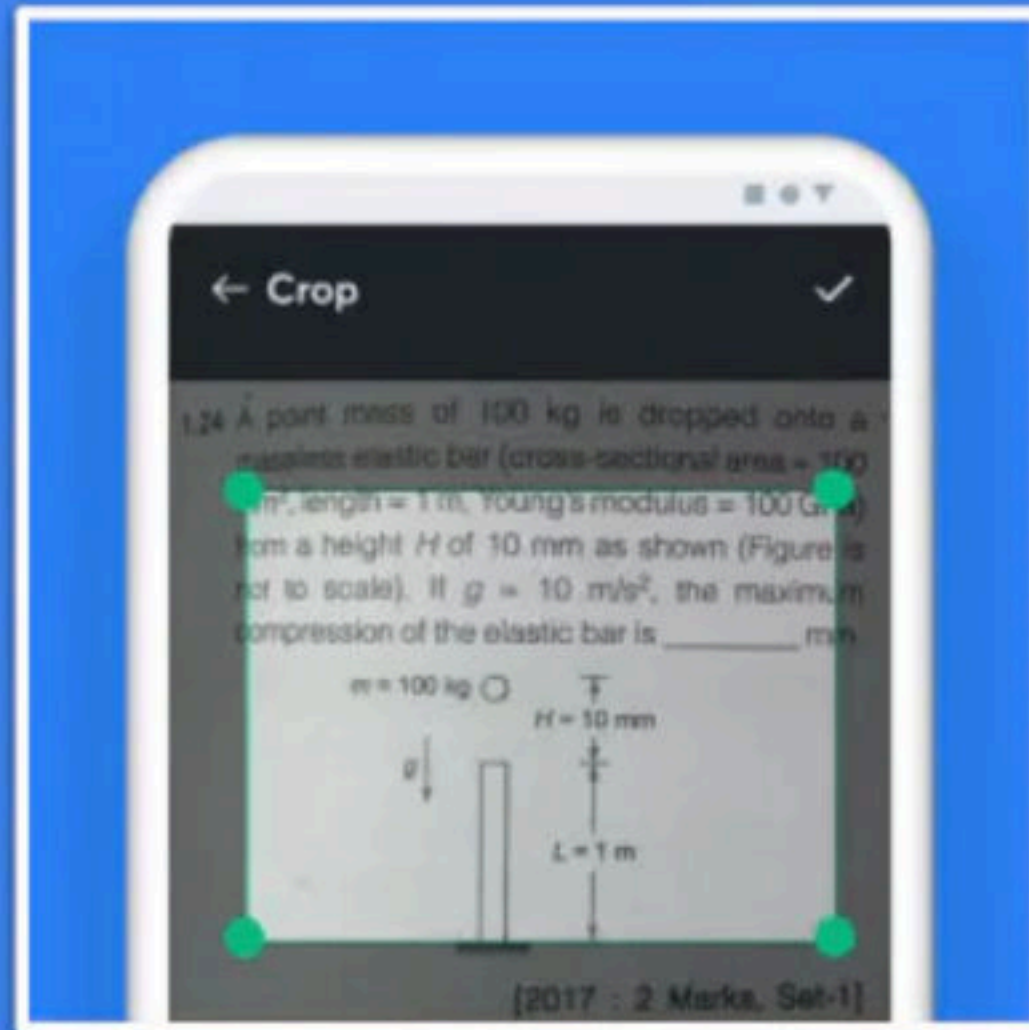


Step 2
Select 'Take a picture' or 'Choose from Gallery'

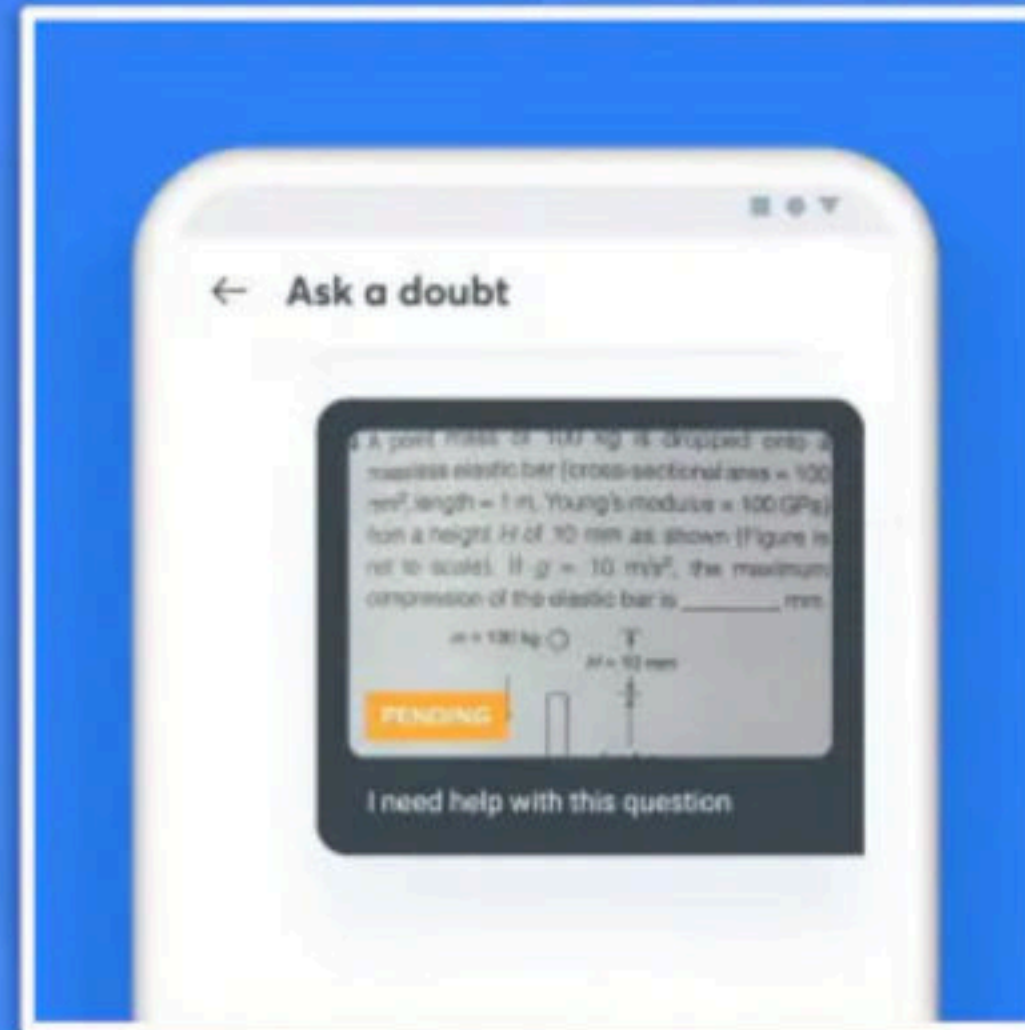


Step 3
Click/select a picture of your question

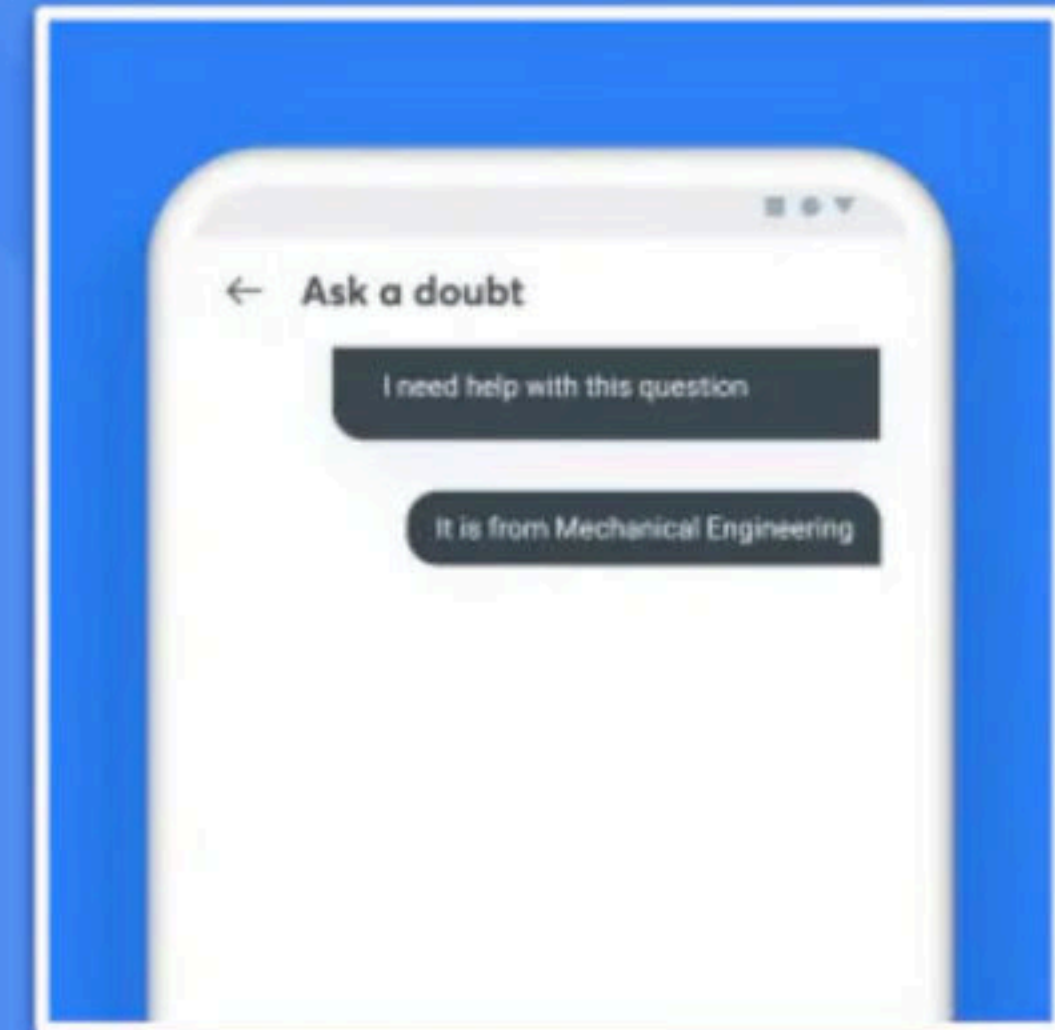
? How to Ask a Doubt



Step 4
Crop to highlight one specific question



Step 5
Choose the subject that the question falls under

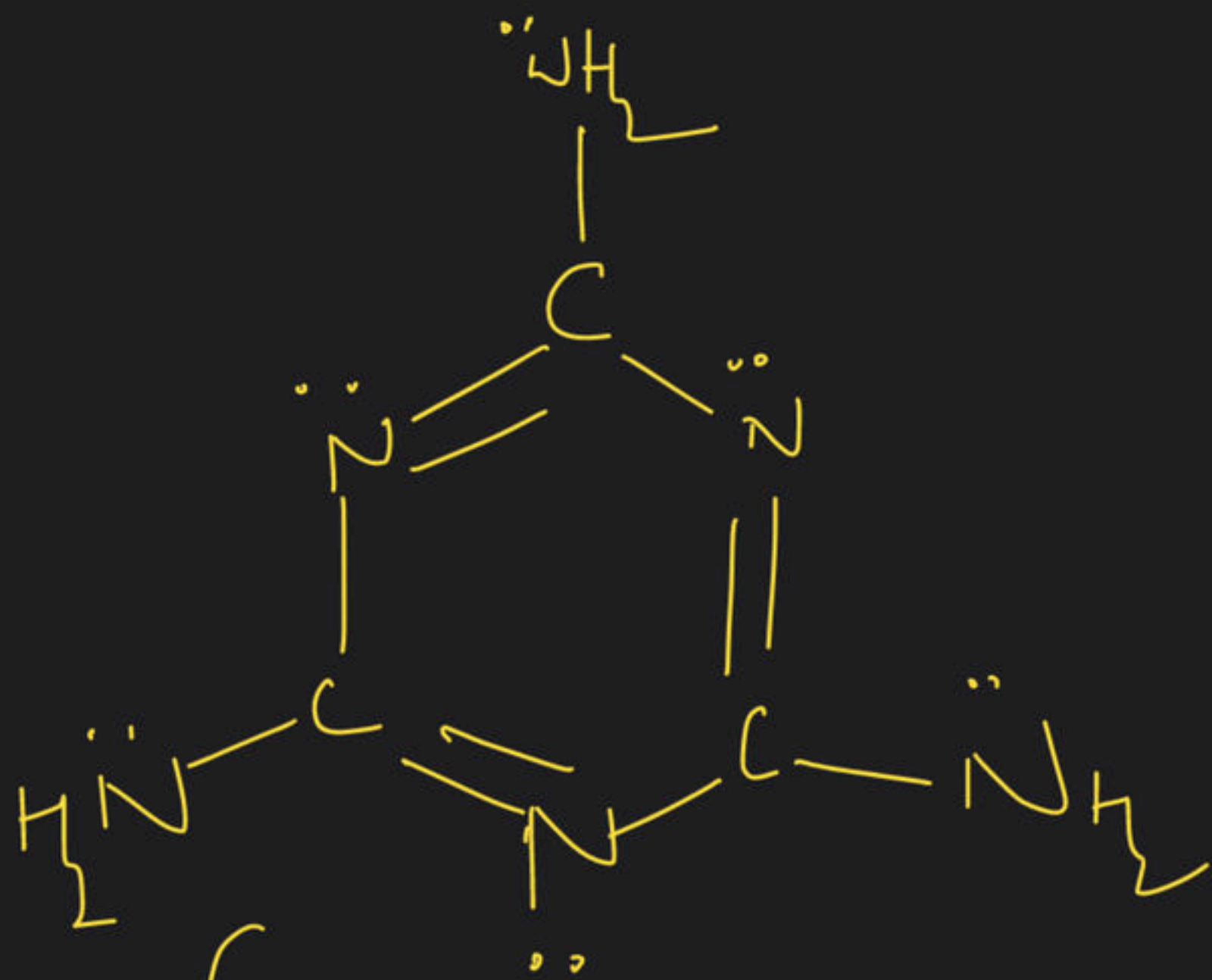


Step 6
Sit tight, you'll receive the solution soon!



Condition for cyclic Structure:→

C.A more than two and S.A should be equal or
greater than C.A



Ques find the number of l.p. in molecule

Ans = 6

▲ 6 • Asked by Monish

SIR QUE 38 HUA NAHI PLEASE BTA DIJIYE

Mock Test 3 | Unacademy

unacademy

Electrons are simultaneously attracted between more than one nucleus.
YOUR ANSWER

Electrons are transferred from one atom to another atom.

Solution View

Question 38
1 MARK

Your Time Taken: 58s Avg Time Taken By Others: 59s Attempt Accuracy: 54%

Chemical Bond Formation

Which of the following statement is false ?

π -bond is a result of 4-lobe interaction between two d-orbitals.

π -bond is stronger than σ -bond.
CORRECT ANSWER

π -bond & σ -bond have unequal bond strength.

Representative elements do not have tendency to form δ -bond.
INCORRECT

Solution View

5 and 1

Type here to search

11:03 26-09-2021

Orderly Strength

5 7 7 8

▲ 5 • Asked by Rachit

Please help me with this doubt

Quora Open in App 



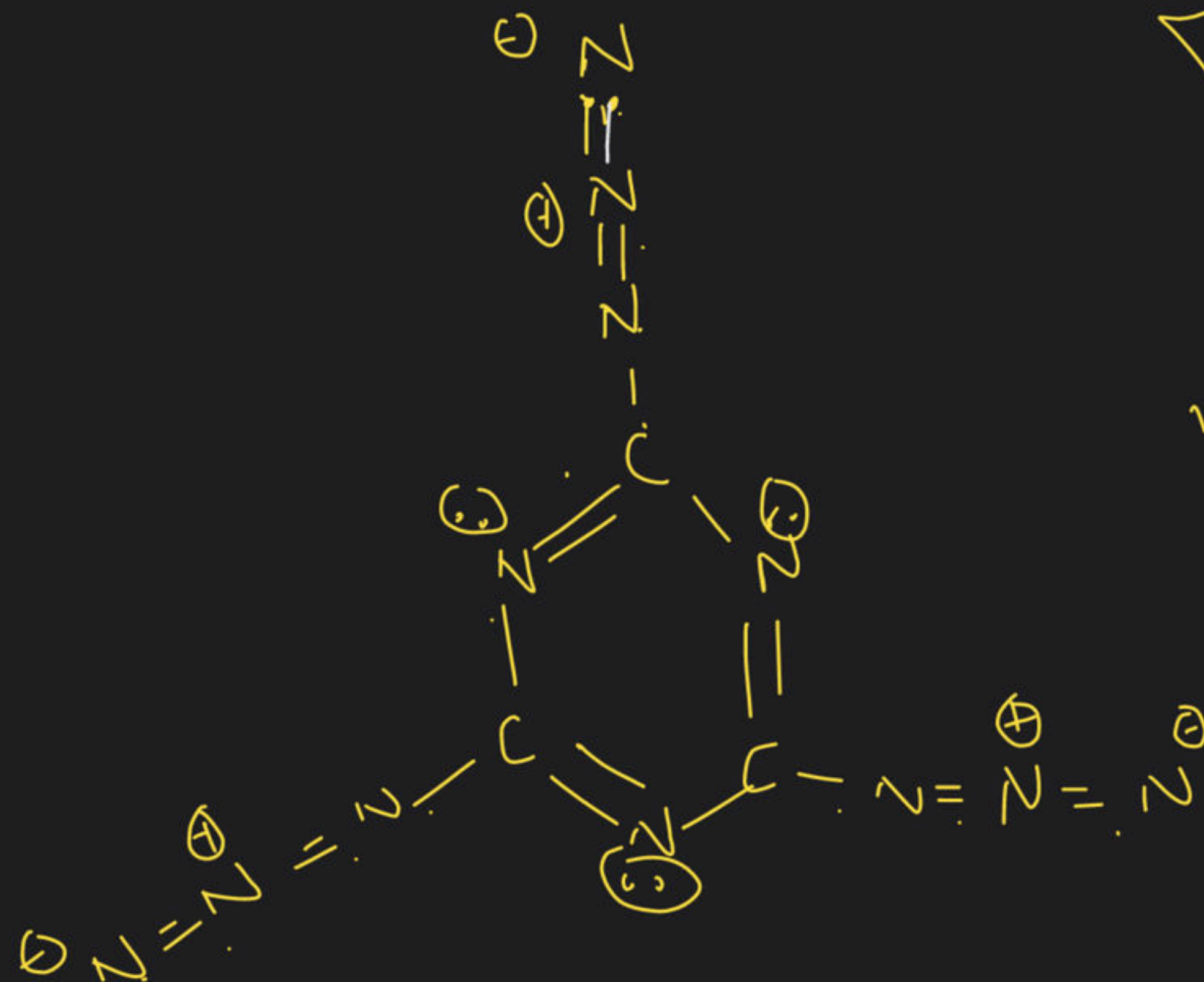
 **Rachit Tiwari**
Answered 1m ago

Respected Vishal Joshi sir is god of inorganic chemistry. He explains each and every thing in a well organised and logical manner... His class is full of wnergy so that student do not get bored. You will not get any exception in subject like inorganic as he explains each and every thing. I am sure after studying inorganic from him you will love and enjoy the subject. He is a very dedicated personality . His 2014 student chitrang murdia scored AIR 1 in jee advanced and many more students got ranks under 10. ❤️🙏🙏🙏

1 view

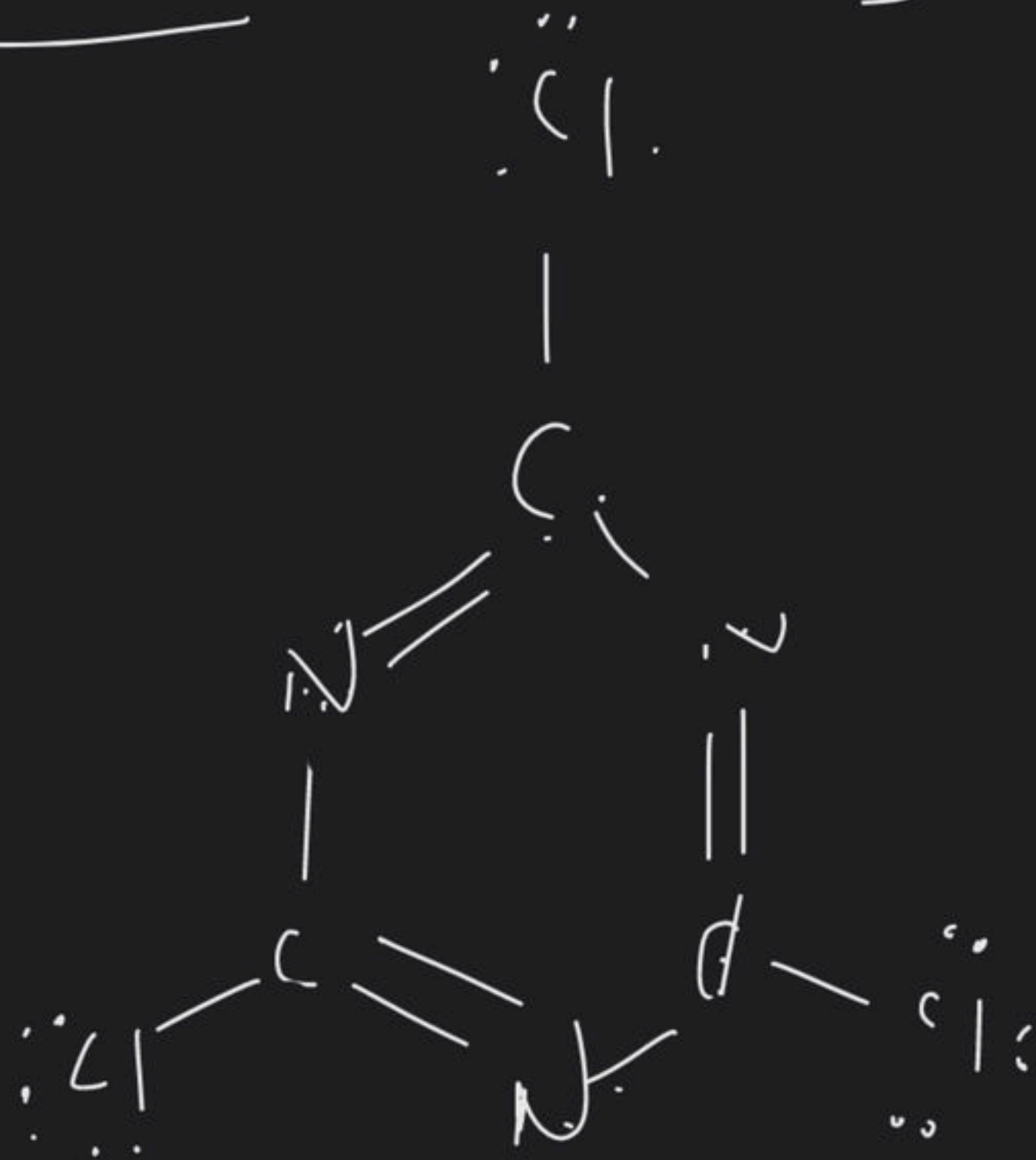
(cyanic tri azide)



15:3

5:1

Ques find the Ratio of l.o.p present on C atom
to sp^2 hyb. orbital in $(_3N_3)_2$ molecule.



$$\frac{1}{18}$$

$$\underline{9 : 18}$$

Ques

For which

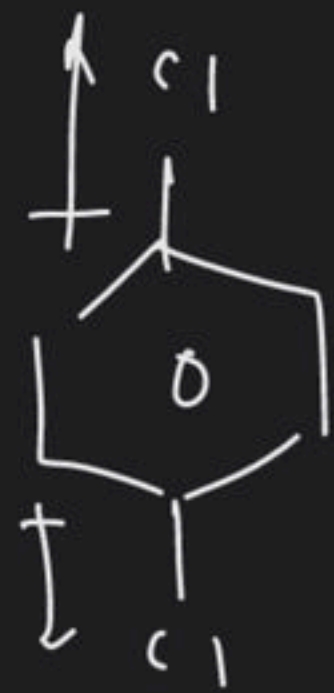
of the following

(^{Main}
2016)

molecule significant

$\mu = 0$

(1)



(2)



(3)



(4)



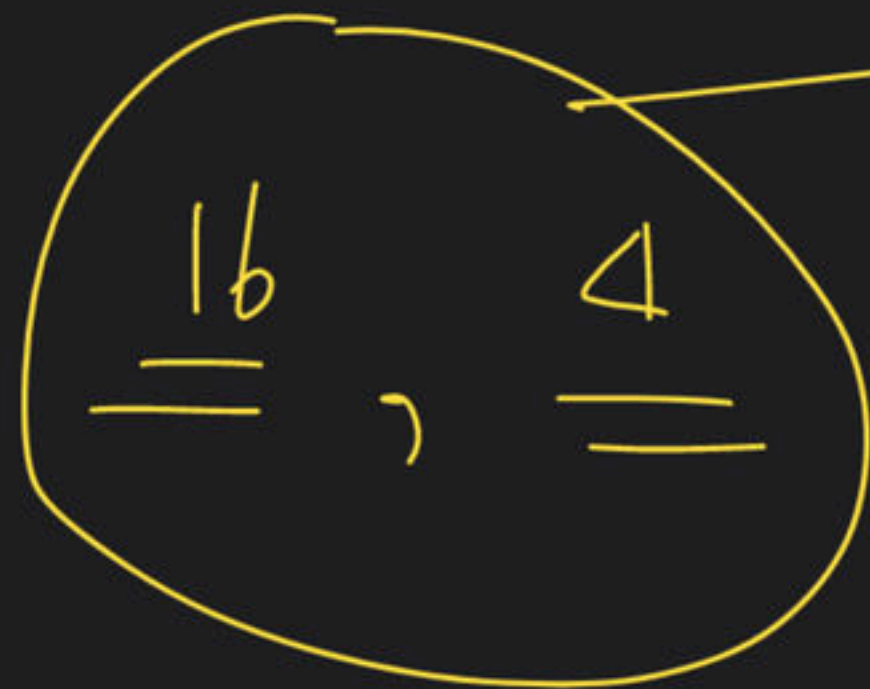
(a) only 3

(b) 3, 4

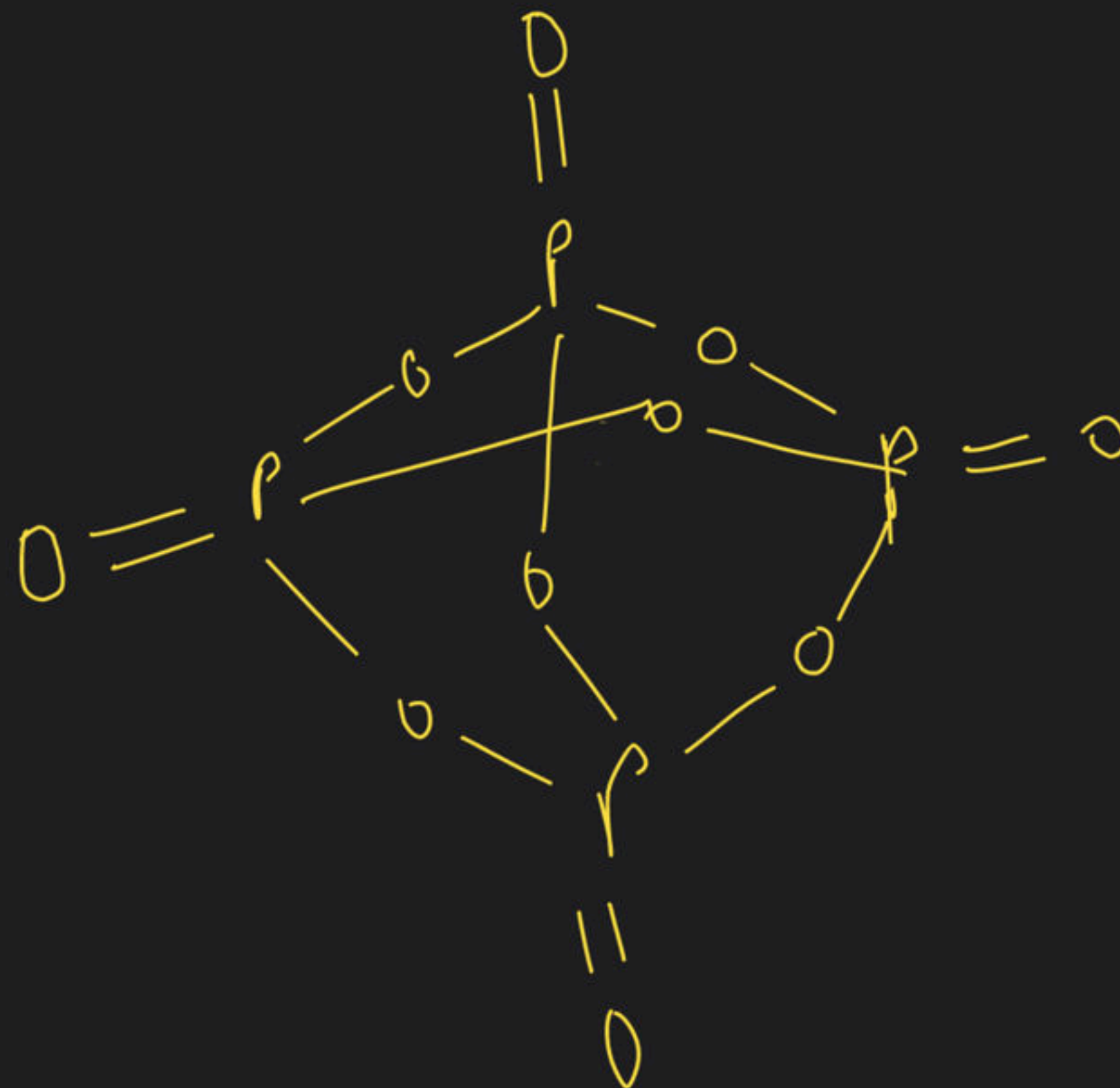
(c) only 1

~~(d)~~ 1 and 2

$P_4^{0/0}$



$P_4^{0/6}$

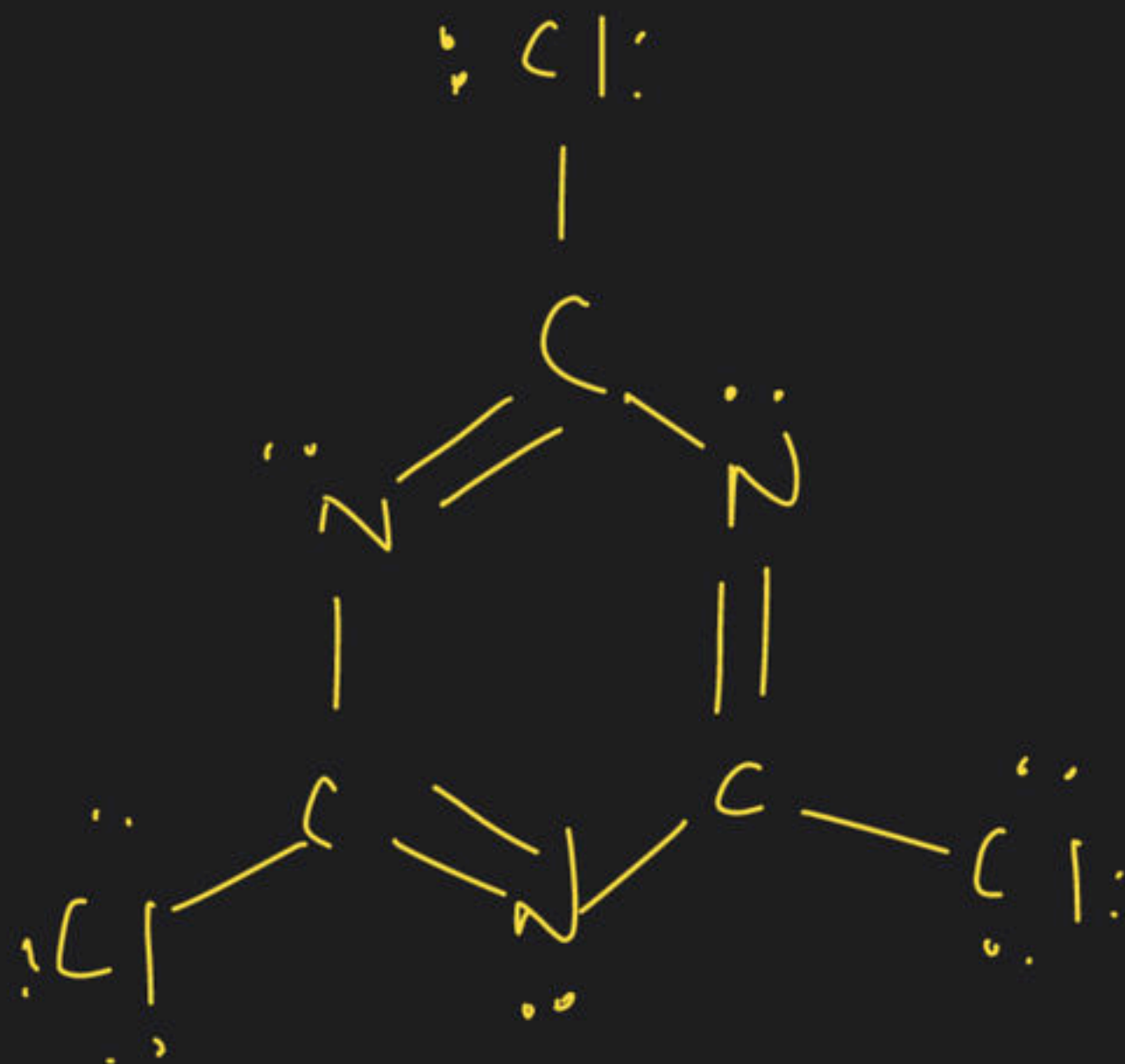


Ques find the P-O-P linkage in P_4O_{10}

Ans = (6)

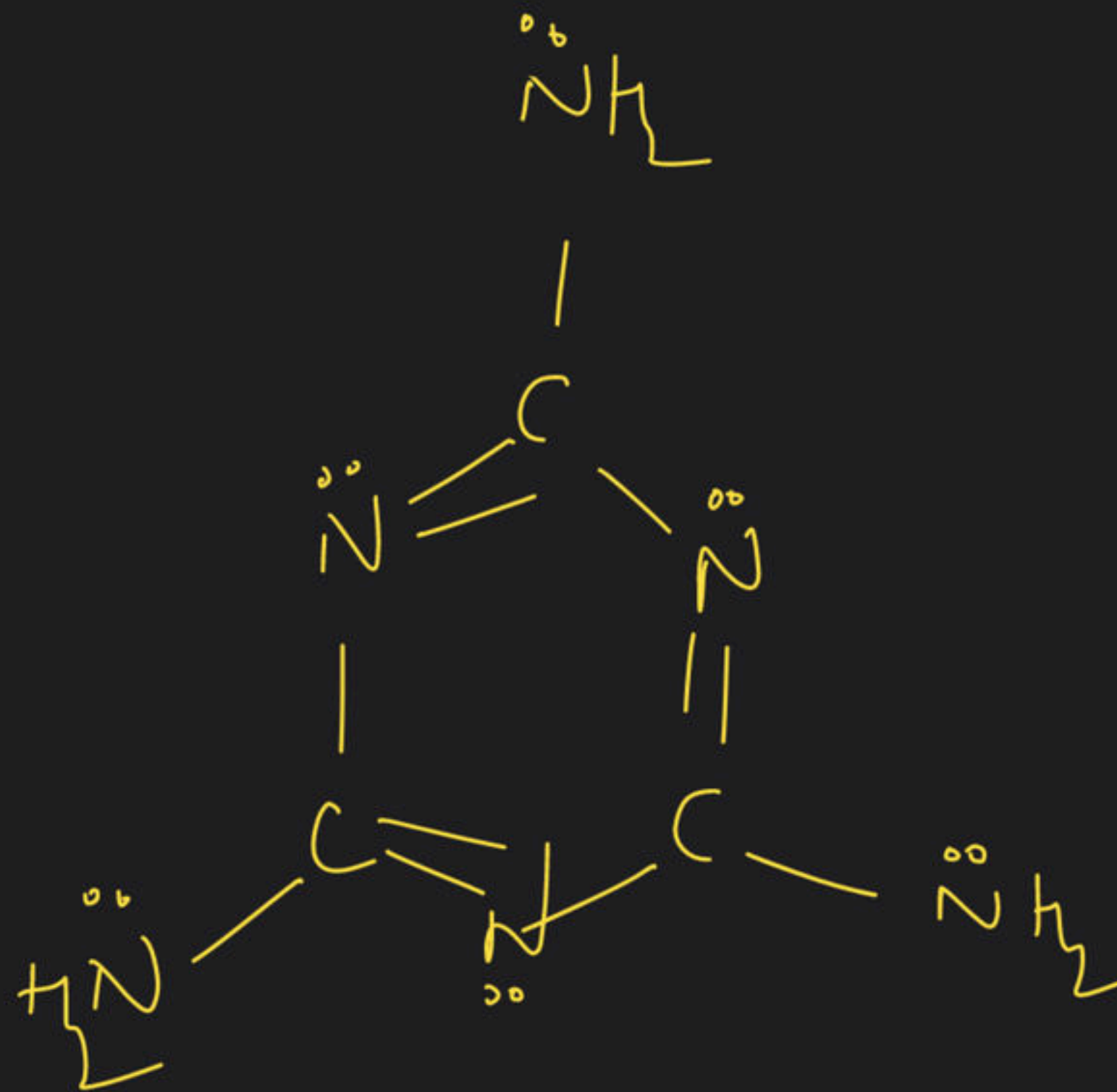
or

find the ratio of total number of bonds
to the total number of l.p in $\text{C}_3\text{N}_3\text{Cl}_3$



$$\frac{12}{12} = 1$$

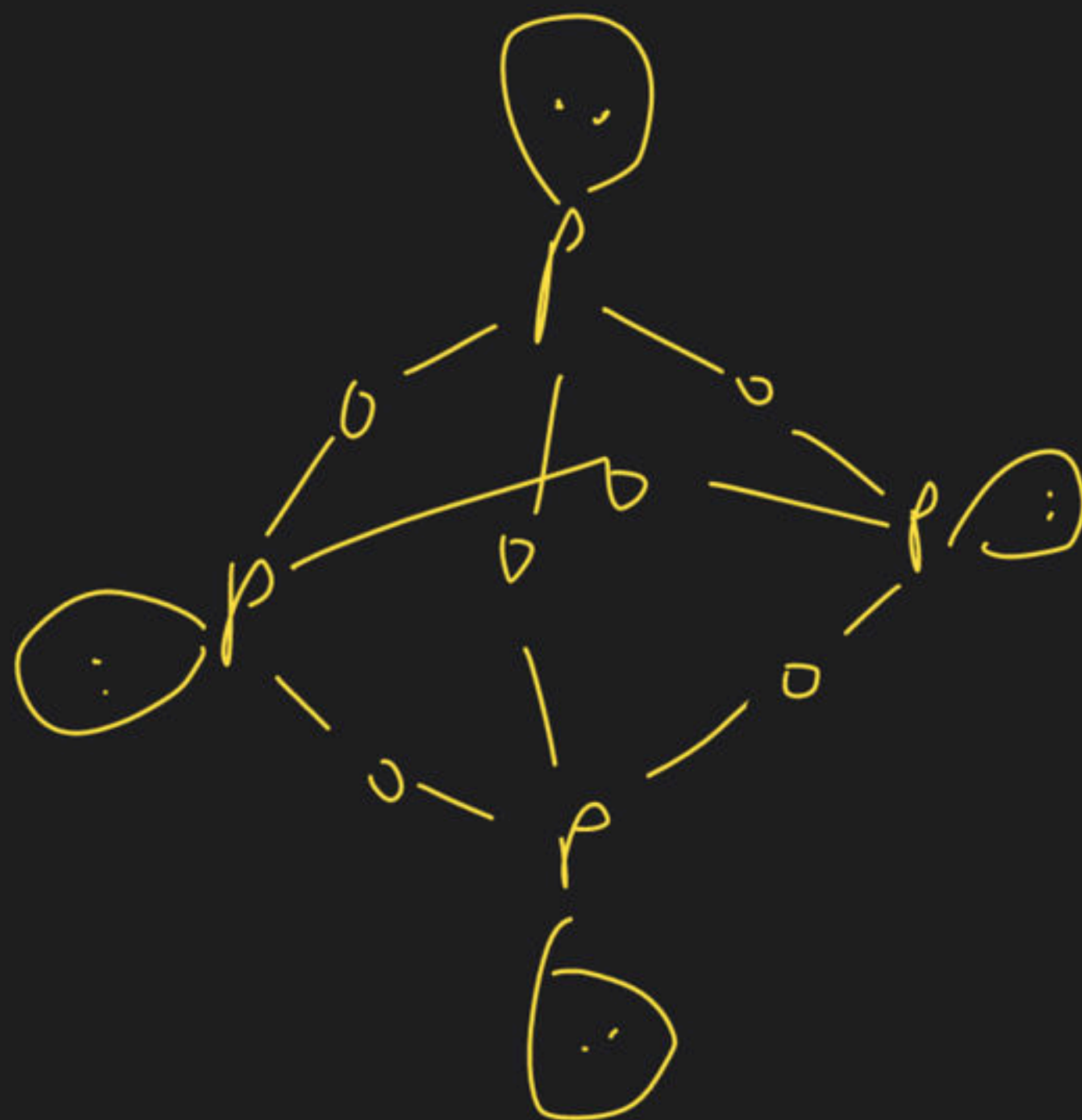
Ques find the ratio of l.p. to π bond (present in ring)
in $S_N3(NH_2)_3$



$$\frac{6}{3} = \underline{2:1}$$

or

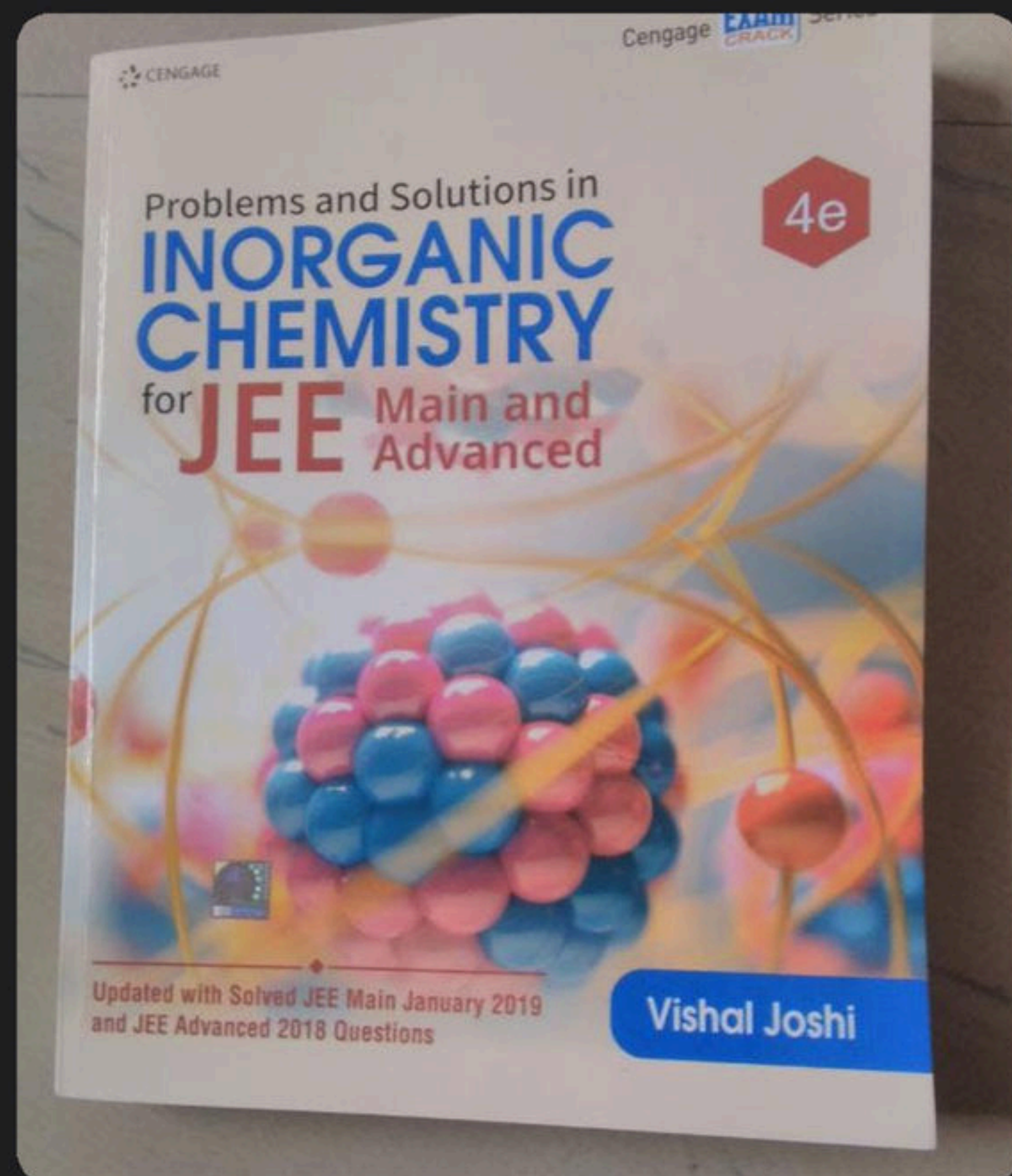
find the ratio of total number of
5 bonds to l.p of sp^2 hyb. orbitals in
 $C_3N_3(N_3)_3$



ex find the number of $p=0$, $p=0$ in p_4, p_{10}

▲ 4 • Asked by Ankitjha

Sir yahi book leni h na thik order hua na ??



▲ 2 • Asked by Amit

Please help me with this doubt

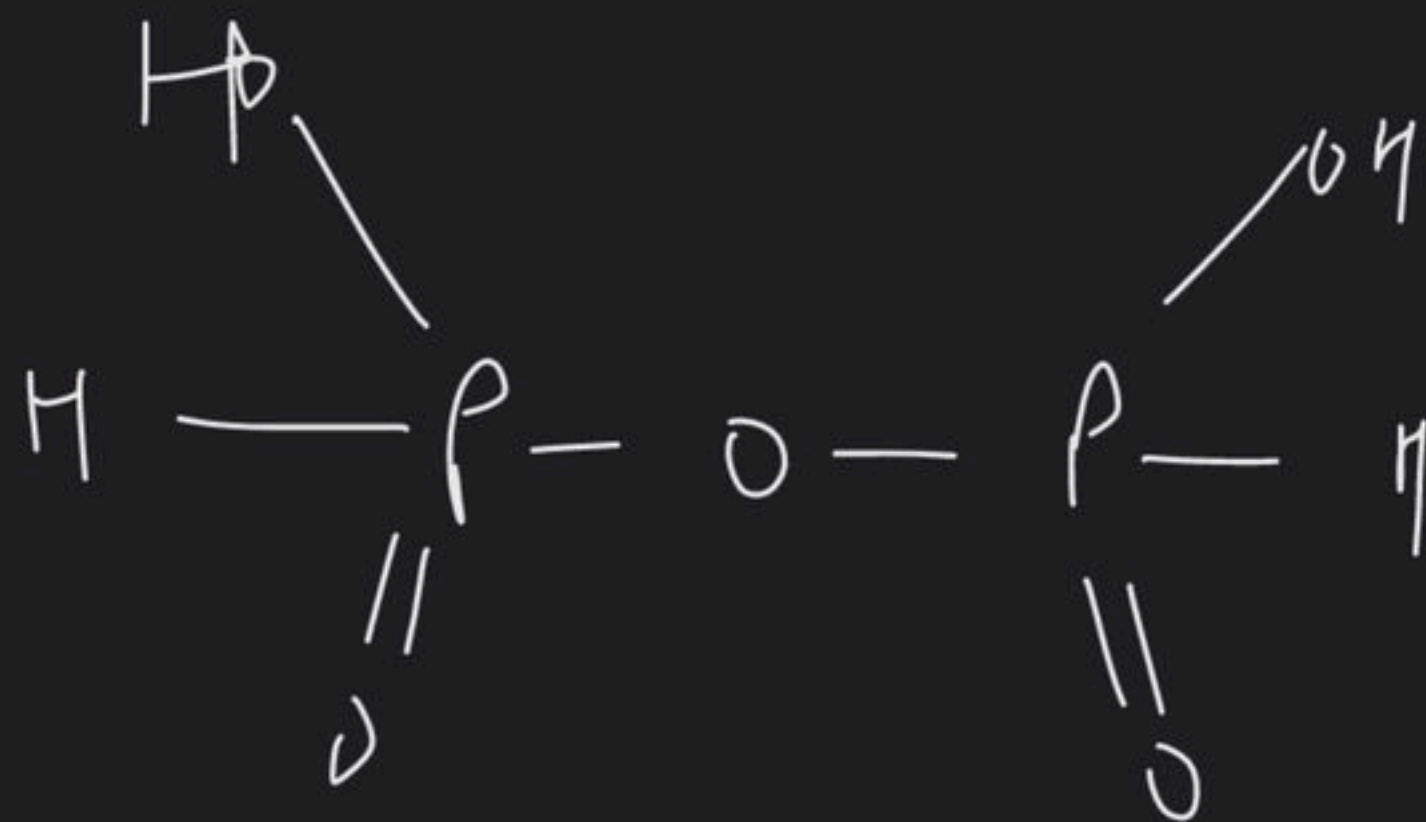
(D) Vapour pressure decreases due to intramolecular H-bonding.



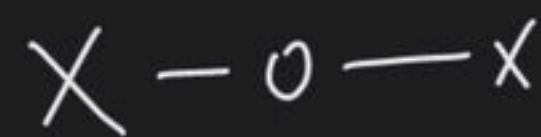


P.O.D

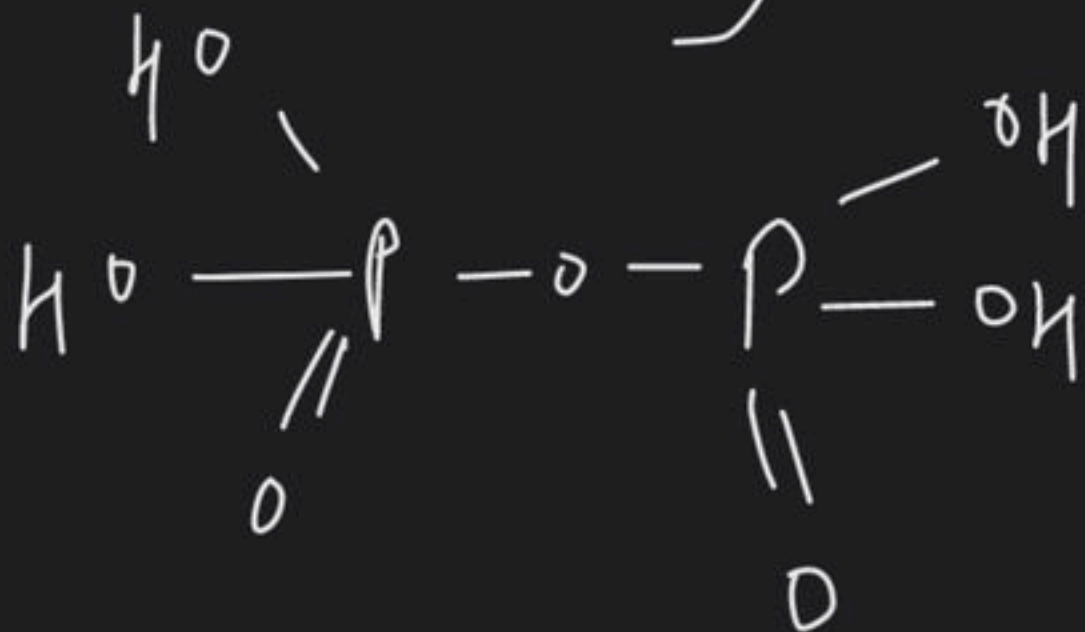
$H_4P_2O_5$ (pyrophosphorous acid)



{
 $(.A = 200$
 $S.A =$ is in odd
 number
 then linkage



$H_4P_2O_7$ [pyrophosphoric acid]

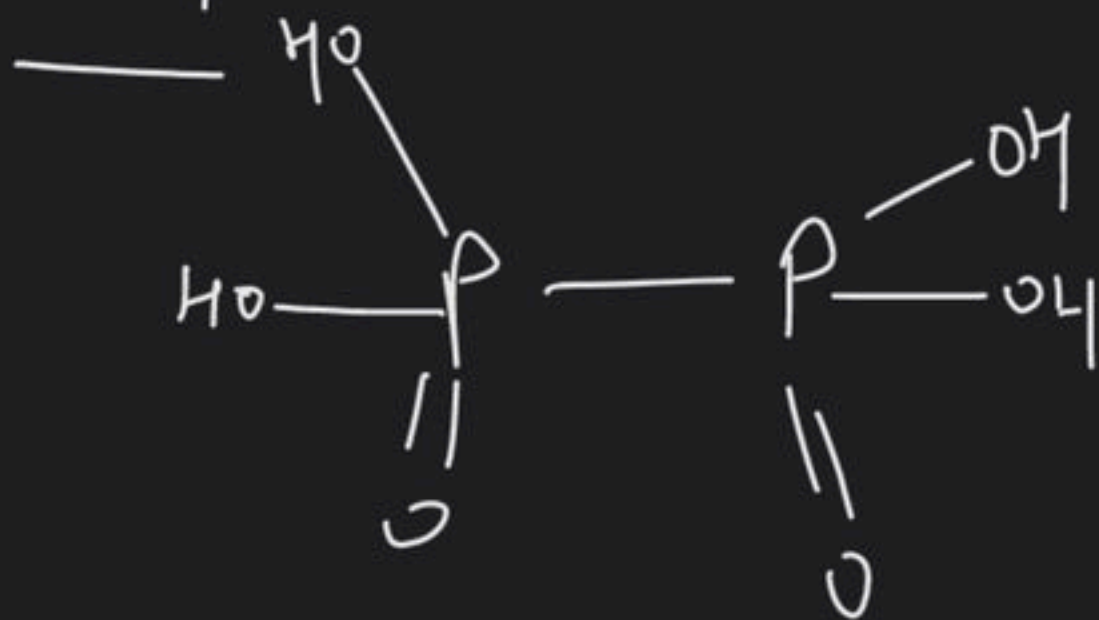


$H_4P_2O_6$ (Hypo phosphoric acid)

$$4 + 2x + 6(-2) = 0$$

$$2x = 8$$

$$x = +4$$



$C.A = \text{two}$
 $S.A = \text{even number}$
then linkage

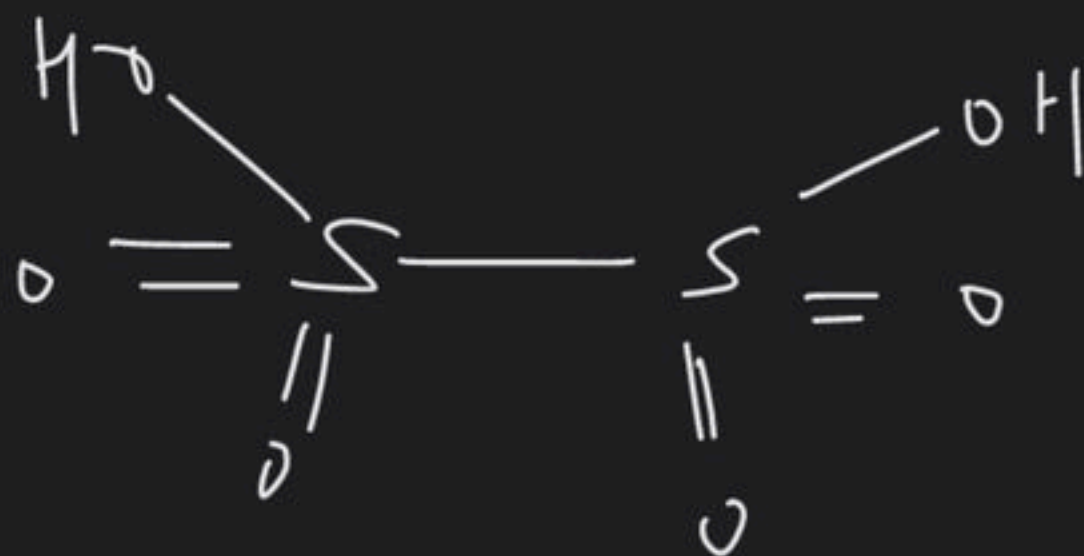
$X-X$ [when $C.A$ is in

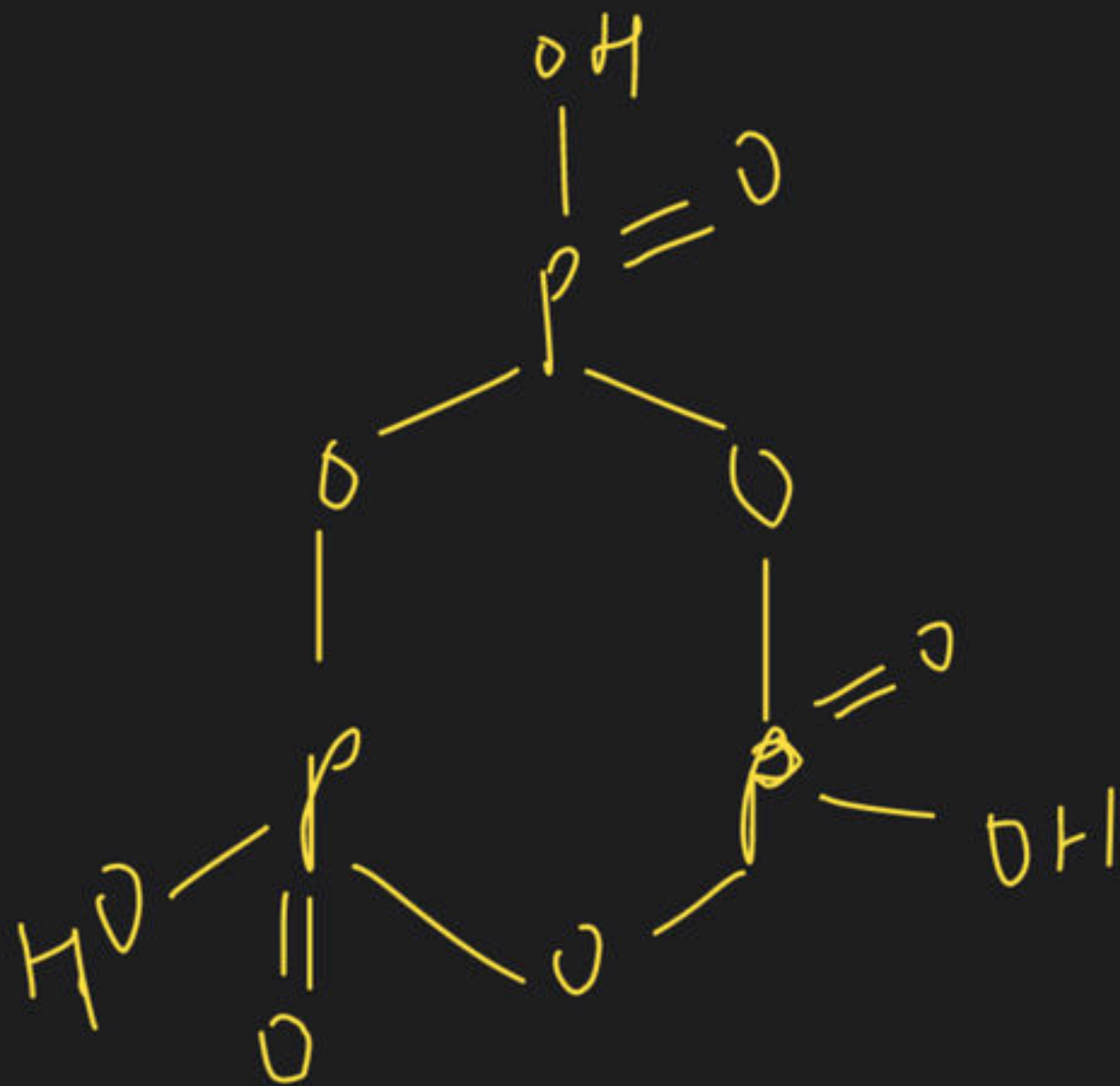
$X-O-O-X$ [out of Range

$H_2S_2O_6$ (hypsulphuric acid / Dithionic acid)

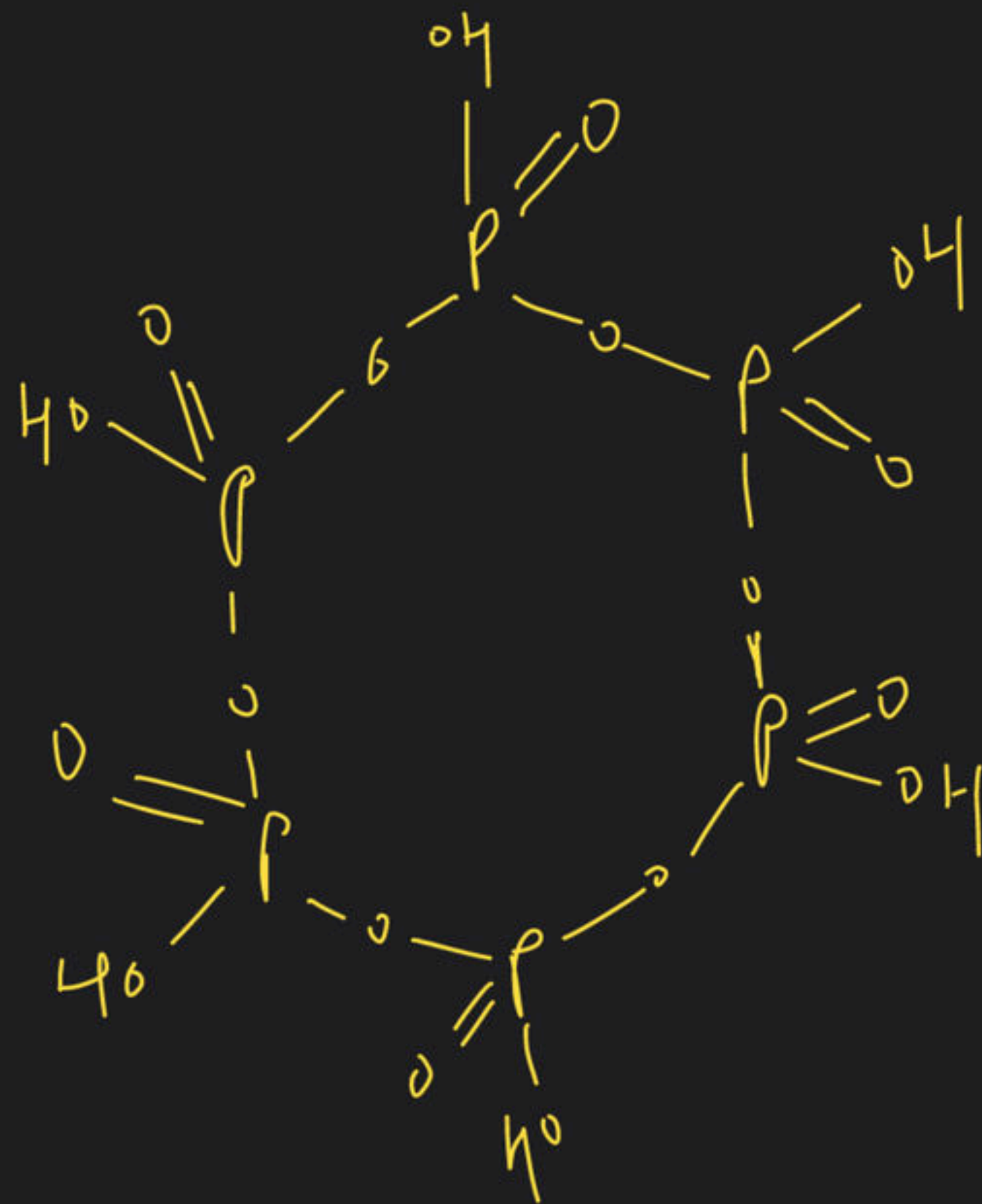
$$2 + 2x + 6 \times (-2) = 0$$

$$x = 5$$

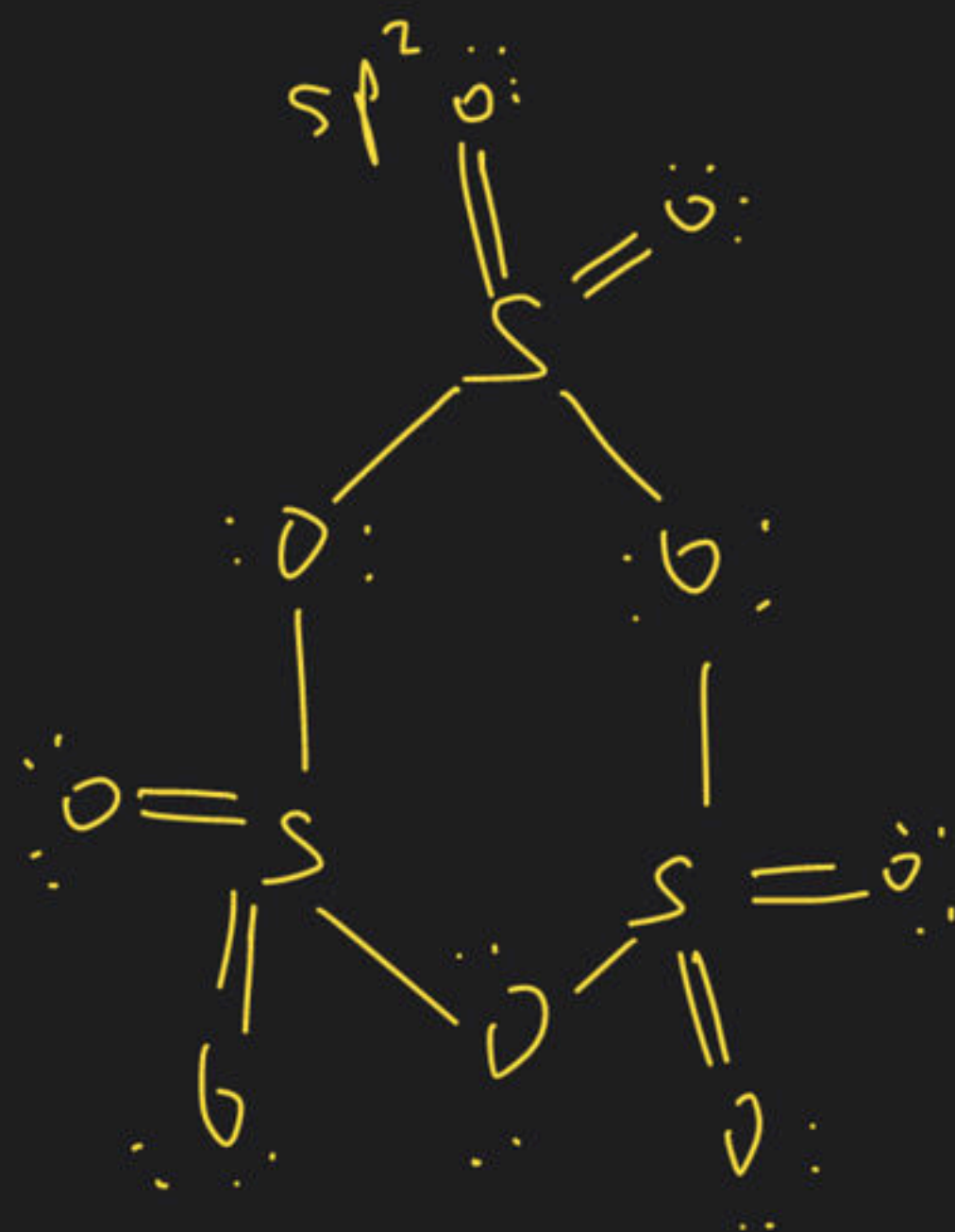




$H_6P_6O_{18}$ [cyclic hexameta phosphoric acid]



$S_3O_9^{2-}$ [$\gamma-SO_3$, trimer of SO_3]



all atoms are sp^3 hyb.

Ans = F

T / f

▲ 4 • Asked by Manthan

Sir :)

Doubt 1: Sir aapne (HF)_n likhwaya tha do n ki value 2, 4, 6 hi hogi ya isse jyada bhi ho sakti hai?

Doubt 2: Sir ice ke cage like structure ka volume ↑ isliye hota hai kyunki wo pani ko trap kar leta hai?

Doubt 3:

Ques - Strength of H-bonds in HF is higher than water. Explain.

Sir HF me En diff ↑
and H₂O ke O par -28.

Samajh Nahi aaya tha !!



$$\begin{array}{ccc}
 & -\delta & +\delta \quad -\delta \\
 H \rightarrow F & \cdots & H \rightarrow F
 \end{array}$$

$$\begin{array}{c}
 +\delta \quad -\delta \\
 H \quad \quad H \\
 \quad \quad \quad \backslash \quad / \\
 \quad \quad \quad O
 \end{array}$$