Dipole Moment

Course on Chemical Bonding for Class XI 2023

Vishal joshi • Lesson 12 • Sept 7, 2021

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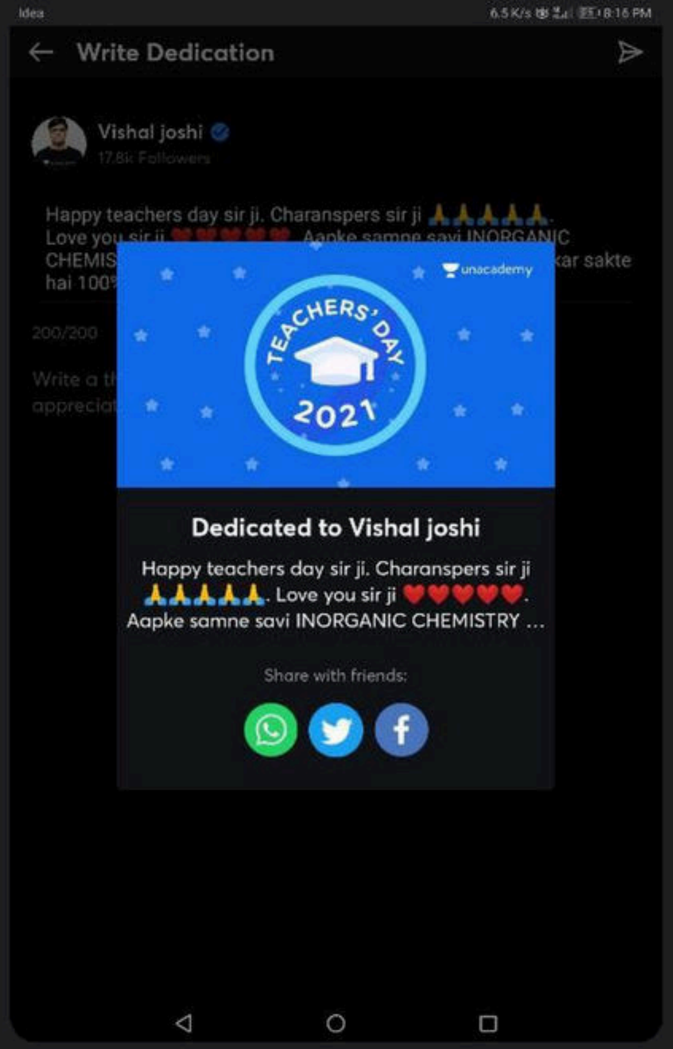
▲ 1 • Asked by Gautam



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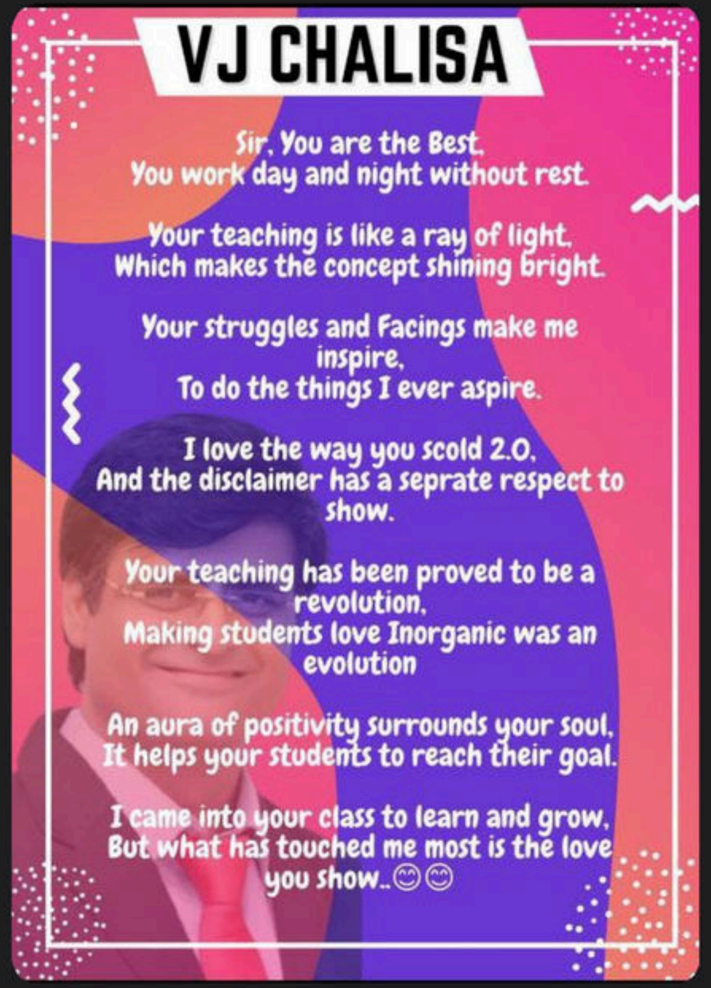
▲ 2 • Asked by Nand

Sir is baar 40 toh nahi ho paye pr Next teachers day pe jroor ho jayenge...



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▲ 8 • Asked by Sayak

Big fan of vj 2.0

DISCLAIMER: Kaksha mai hone wale kisibhi wartalab to krepiya veiktigat na le, ye keval er manoranjan ka sadhan hai issay kisibhi jivit ya mrit vekti ko agar ahat pohochti hai to channel iskeliye uttardayi nahi hai.

BIG FAN OF VJ 2.0

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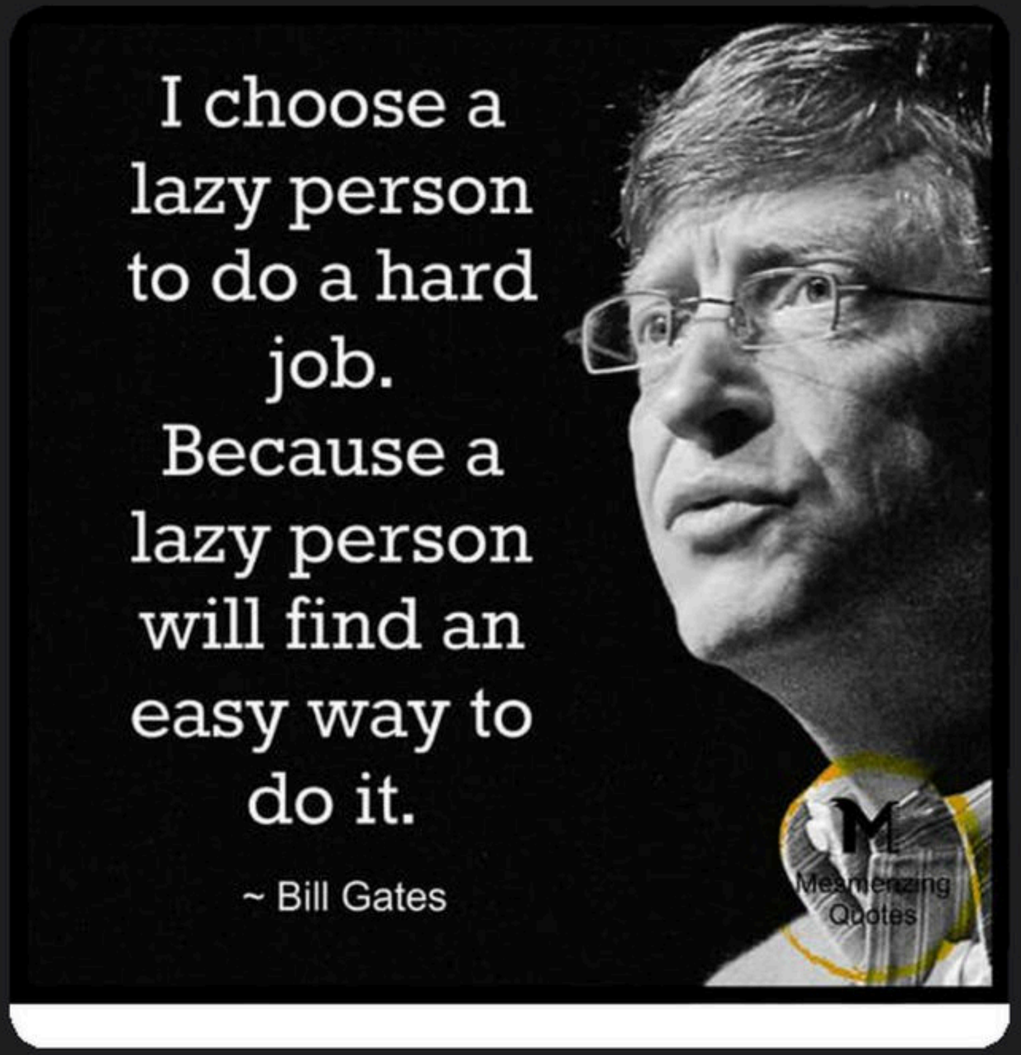
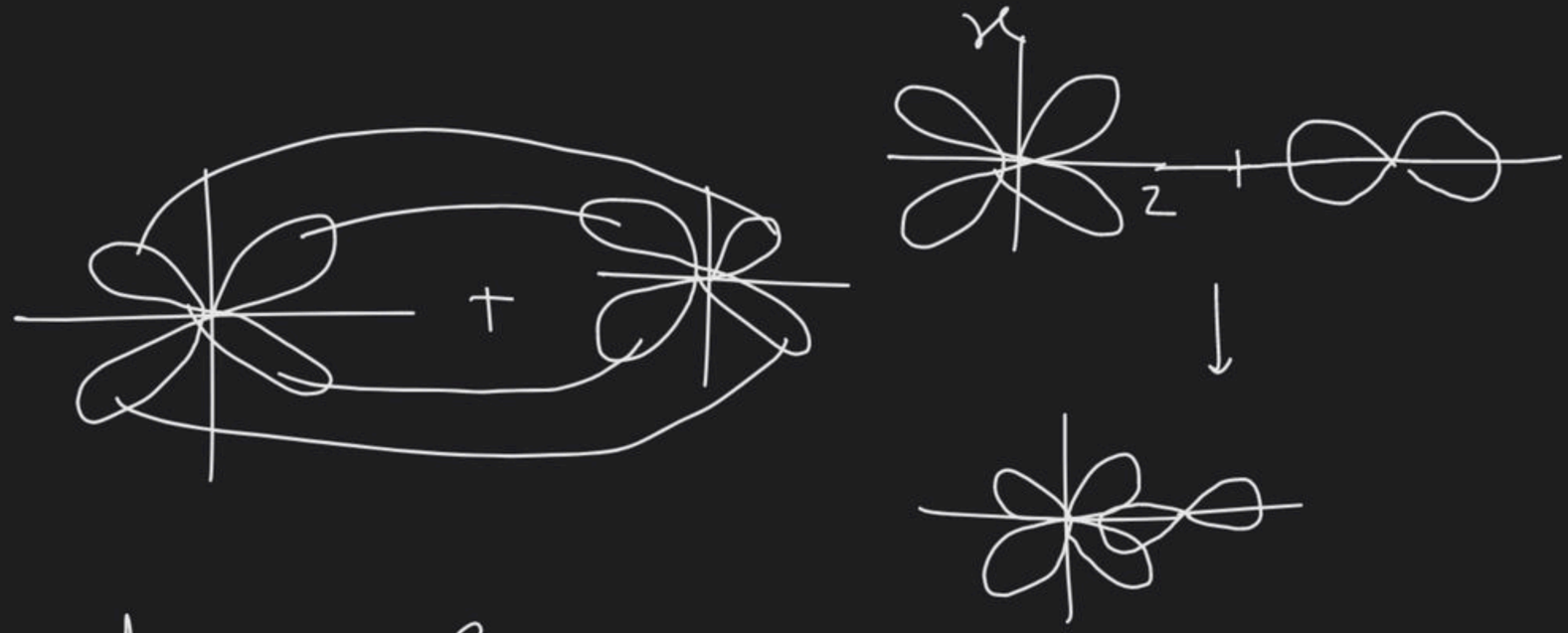
▲ 6 • Asked by Dwarkadhis...

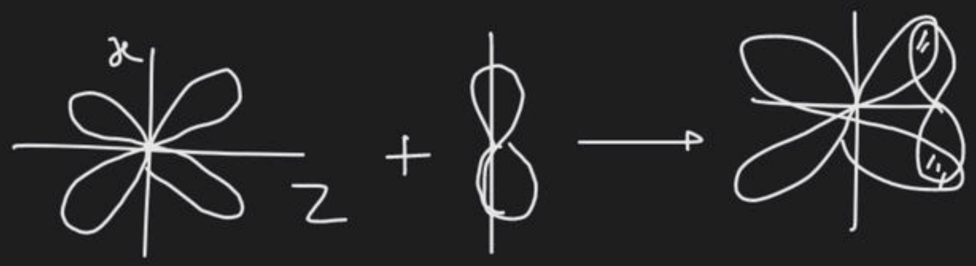
I BELIEVE IN THIS XDXD



$d_{xz} + p_z$



$d_{xz} + p_x$



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▲ 9 • Asked by Aman Bhadk...

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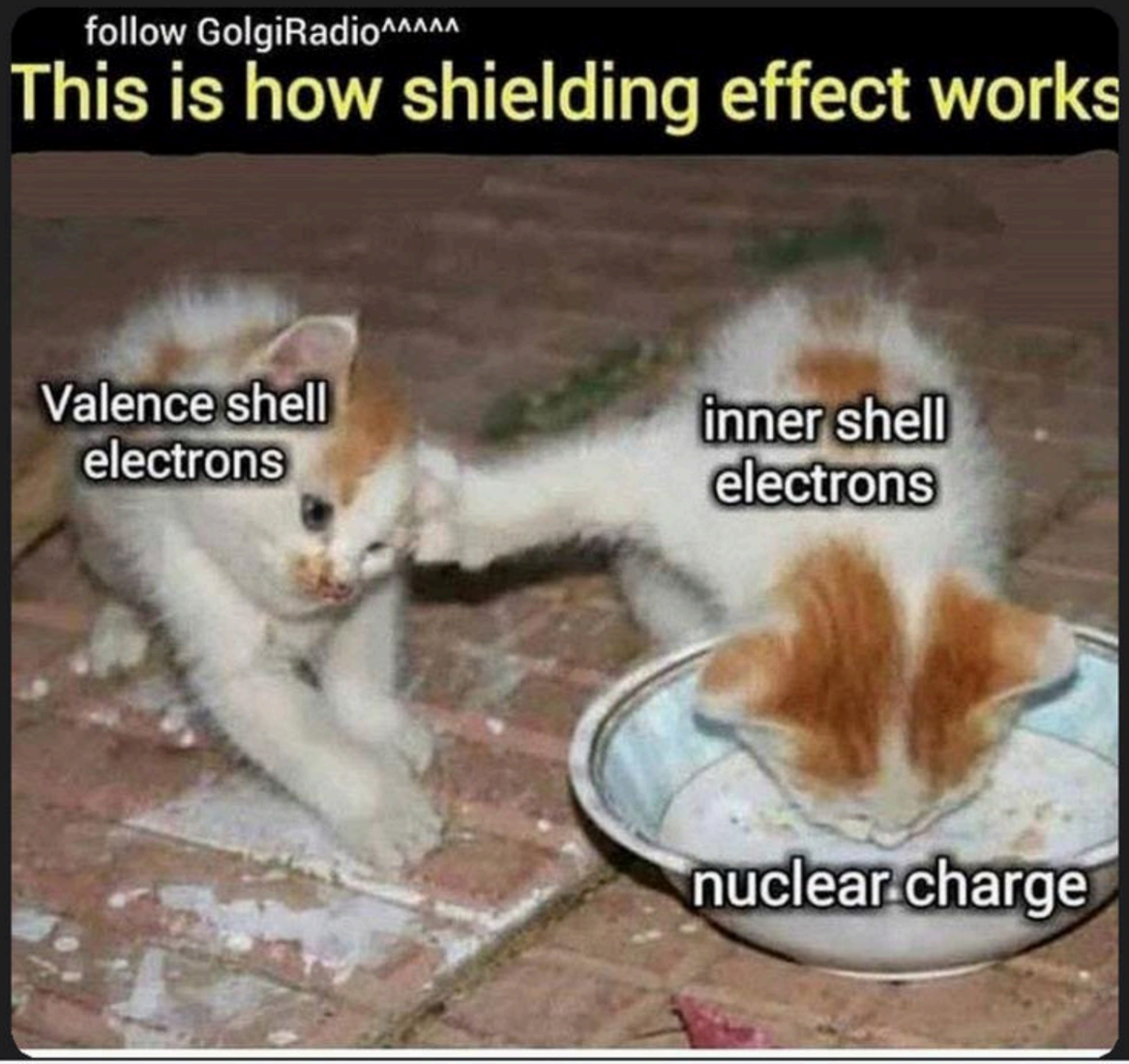

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▲ 6 • Asked by Gautam

Ab pura likha hai

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▲ 2 • Asked by Ankit Kuma...

Happy teacher day sirji

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▲ 6 • Asked by Dwarkadhis...

INSIDER VJ SIR WHEN SOMEONE SAYS NO DBT AISE HI HAND RAISE KARDIYA XD

B.A ∝ E.N of C.A

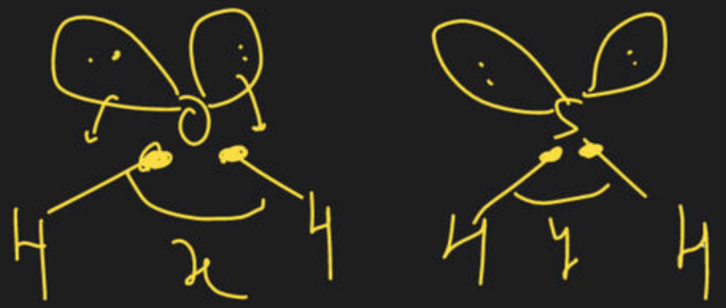
B.A ∝ $\frac{1}{\text{E.N of S.A}}$

$x > y$

a > b

B.A ∝ E.N of C.A

B.A ∝ $\frac{1}{\text{E.N of S.A}}$



x > y

x > y

Ord

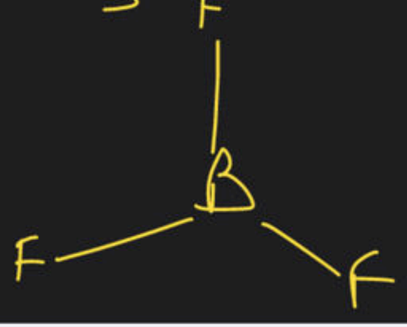
$NH_3 > PH_3 > AsH_3 > SbH_3 > BiH_3$

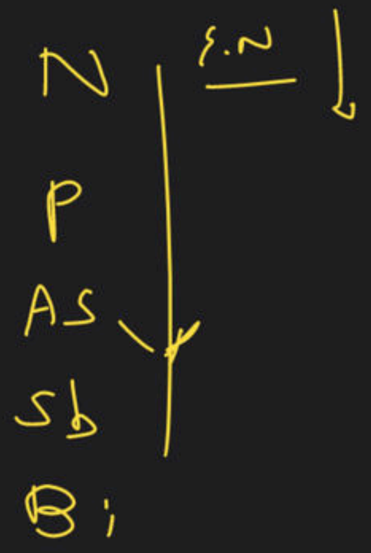
$H_2O > H_2S > H_2Se > H_2Te$

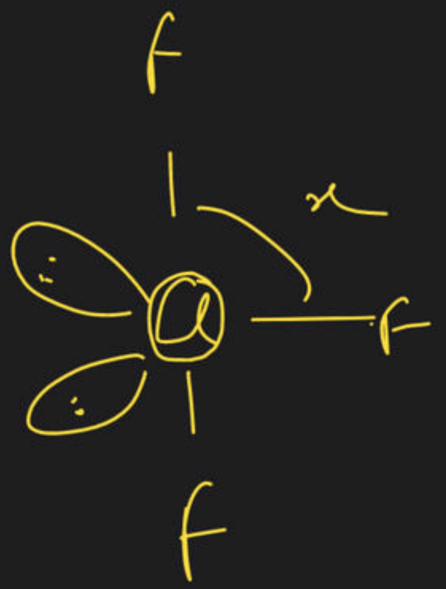
$PF_3 < PCl_3 < PBr_3 < PI_3$

$NF_3 < NCl_3$

$BF_3 = BCl_3 = BBr_3 = BI_3 = 120°$







—

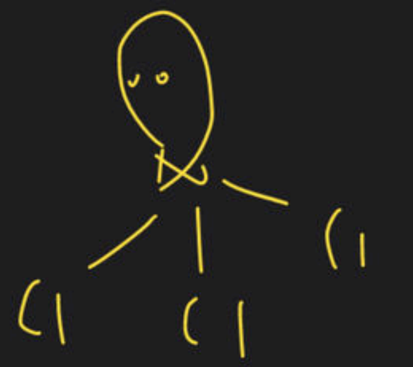
(a) $x < y$

(b) $x > y$

(c) $x = 0$

(d) none

Sp³



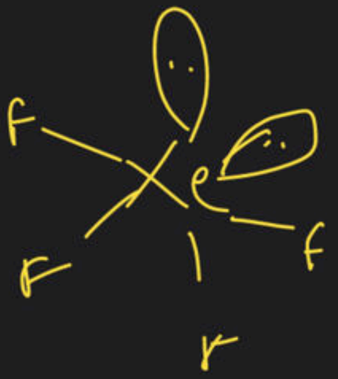
sp³

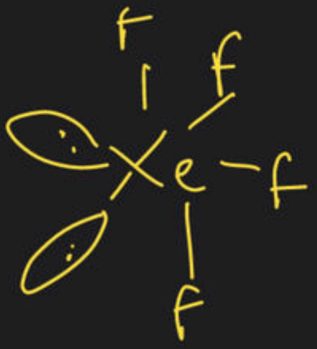
Pyramidal

HF HCl HBr HI

Ans Which of the following geometry of XeF_4 is correct

(a) 

(b) 

(c) 

(d) none

$\beta = 90°$

Qul

Which of following electron geometry of XeF_4 is correct

(1) Square planar (2) tetrahedral (3) trigonal planar

(4) Octahedral

XeF_4 : Xe

4 + 2 = 6 sp^3d^2 (Octahedral)

D.B − l.p > D.B − D.B > D.B − odd e⁻

Ans

(A) NO_2 (1) 180°

(B) NO_2^- (2) 120

(C) NO_3^- (R) 115

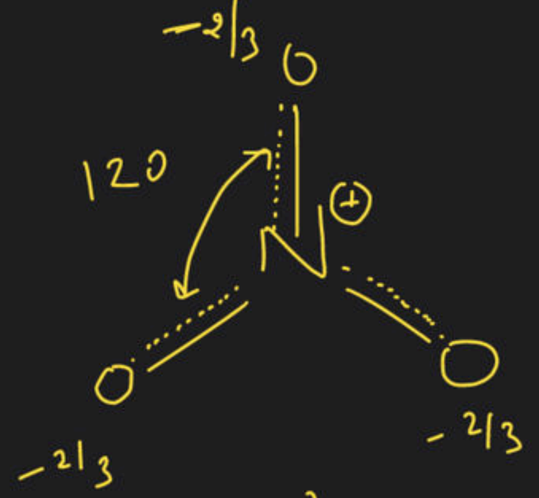
(D) NO_2^+ (S) 134

NO_2^+

$O = \overset{+}{N} - O$

sp

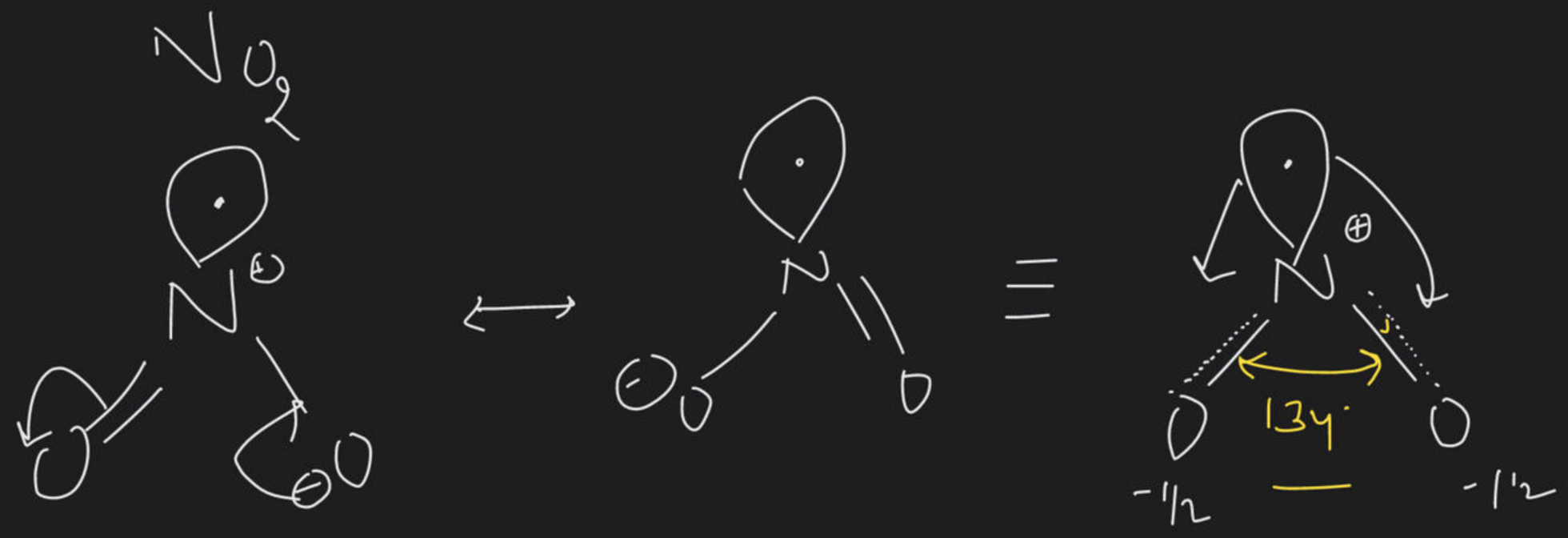
180°



sp^2

120°

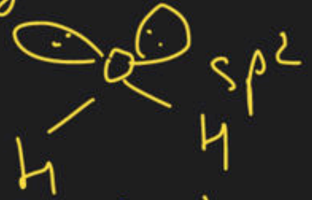

sp2
O
115
O
-1/2
-1/2


134°
-1/2
-1/2

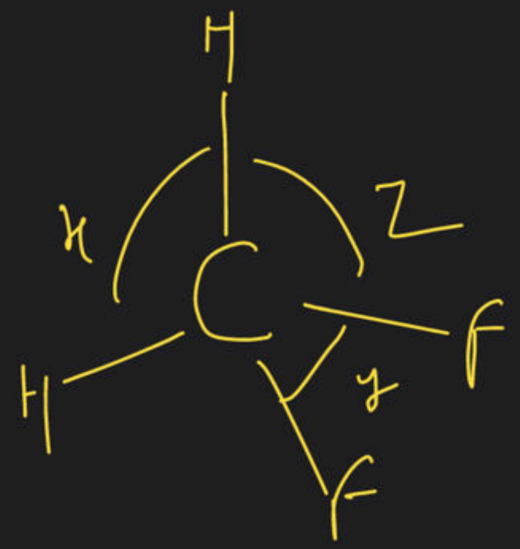
Q.1 Which of the following molecule is perfect tetrahedral

(a) CH_2F_2 (b) NH_3 (c) H_2O (d) None

Pyramidal

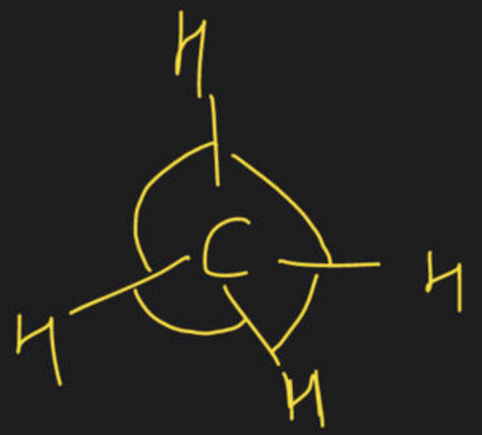


Bent



$x > y$

$x > z > y$



Which of the following set have Same B.A

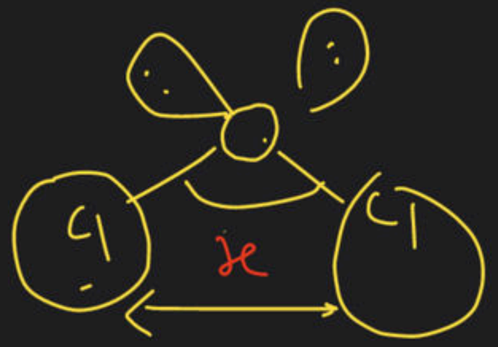
(1) $NH_3 = NF_3$ (2) $H_2O = F_2O$ (3) $CH_4 = CF_4$ (4) none

$BF_3 = BCl_3 = BBr_3 = BI_3$

$CH_4 = CF_4 = 109.5°$

Que

Steric rep and Back bond



B.A of dimethyl ether $O(CH_3)_2$

(1) 109.5 (2) 110°

(3) 90 (4) 180°

(a) ~~$x > y$~~

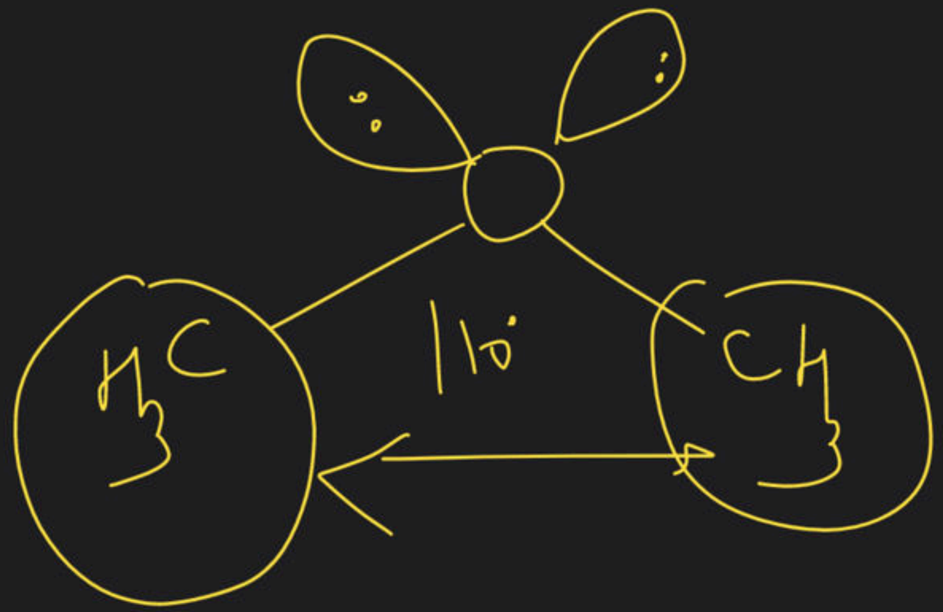
$x < y$

~~$x = y$~~

none

Note = 2nd period — 3rd / 4th / 5th

(Geometry → tet.)


H3C
110°
CH3

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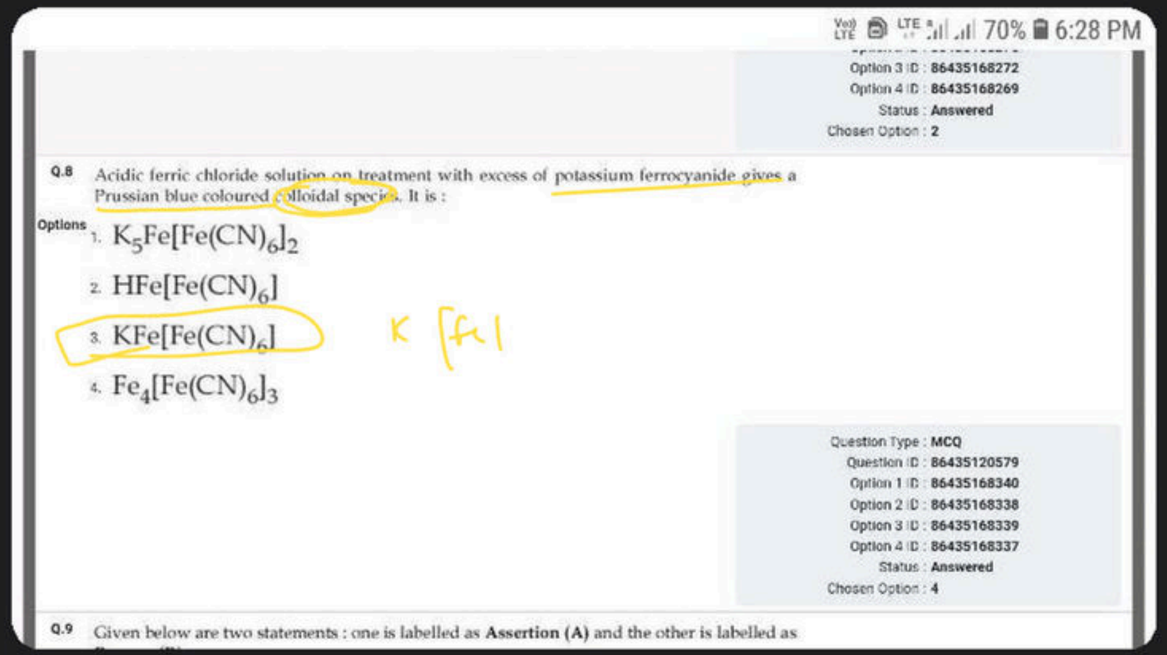
▲ 23 • Asked by Udit

Sir NTA ne ans C diya aur mera ans D hai sayad nta ne galat ans diya hai?? sir plz batayeh konsa sahi hai taki challenge kar saku ans.



70% 6:28 PM

Option 3 ID : 86435168272
Option 4 ID : 86435168269
Status : Answered
Chosen Option : 2

Q.8 Acidic ferric chloride solution on treatment with excess of potassium ferrocyanide gives a Prussian blue coloured colloidal species. It is :

Options
1. $K_5Fe[Fe(CN)_6]_2$
2. $HFe[Fe(CN)_6]$
3. $KFe[Fe(CN)_6]$
4. $Fe_4[Fe(CN)_6]_3$

K Fe

Question Type : MCQ
Question ID : 86435120579
Option 1 ID : 86435168340
Option 2 ID : 86435168338
Option 3 ID : 86435168339
Option 4 ID : 86435168337
Status : Answered
Chosen Option : 4

Q.9 Given below are two statements : one is labelled as **Assertion (A)** and the other is labelled as