



JEE MAIN 2024

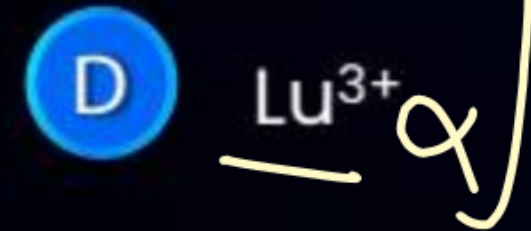
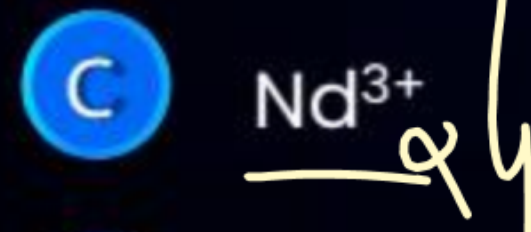
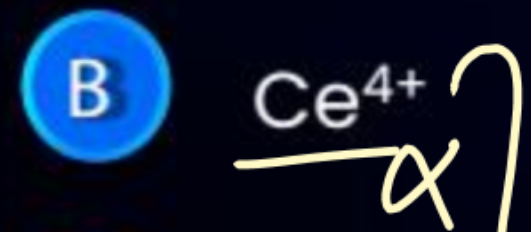
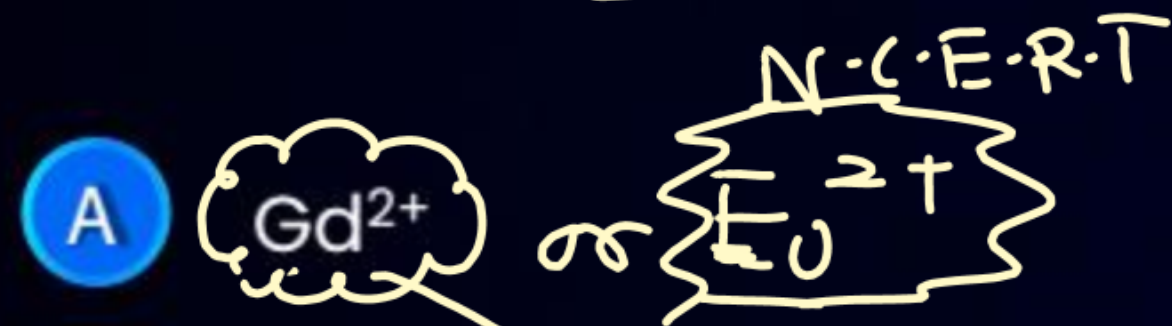
ATTEMPT – 01, 29TH JAN 2024 , SHIFT – 02

PAPER DISCUSSION

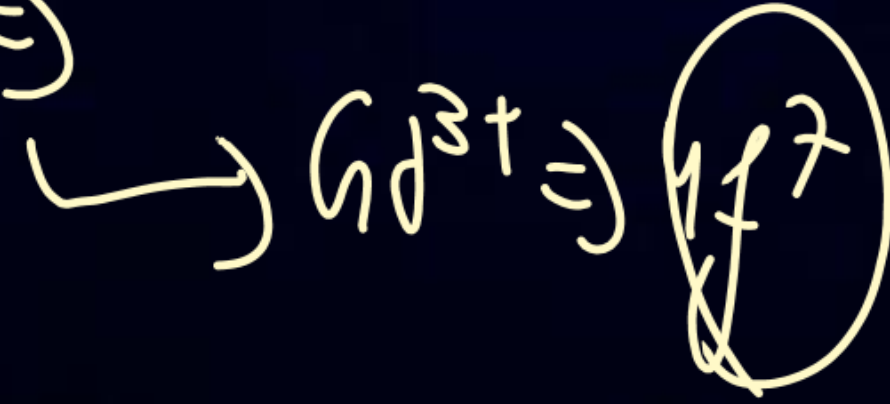
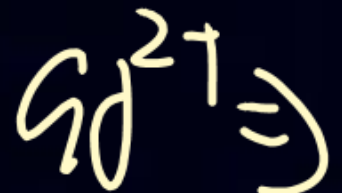
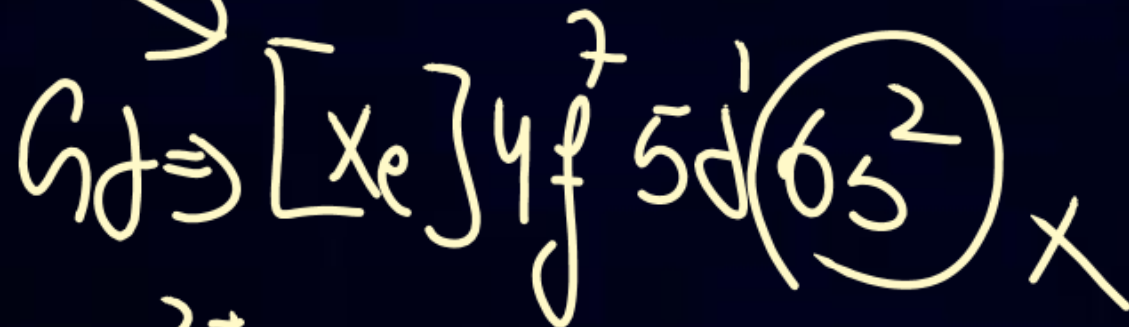
INORGANIC CHEMISTRY



Best reducing agent among the given ions are:



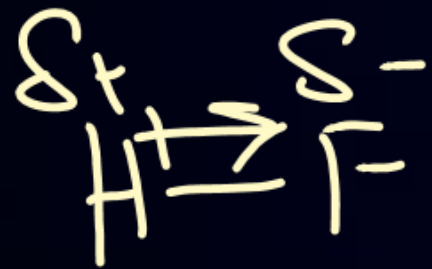
lanthanoids:- common $\Rightarrow 0.5 \Rightarrow +3$





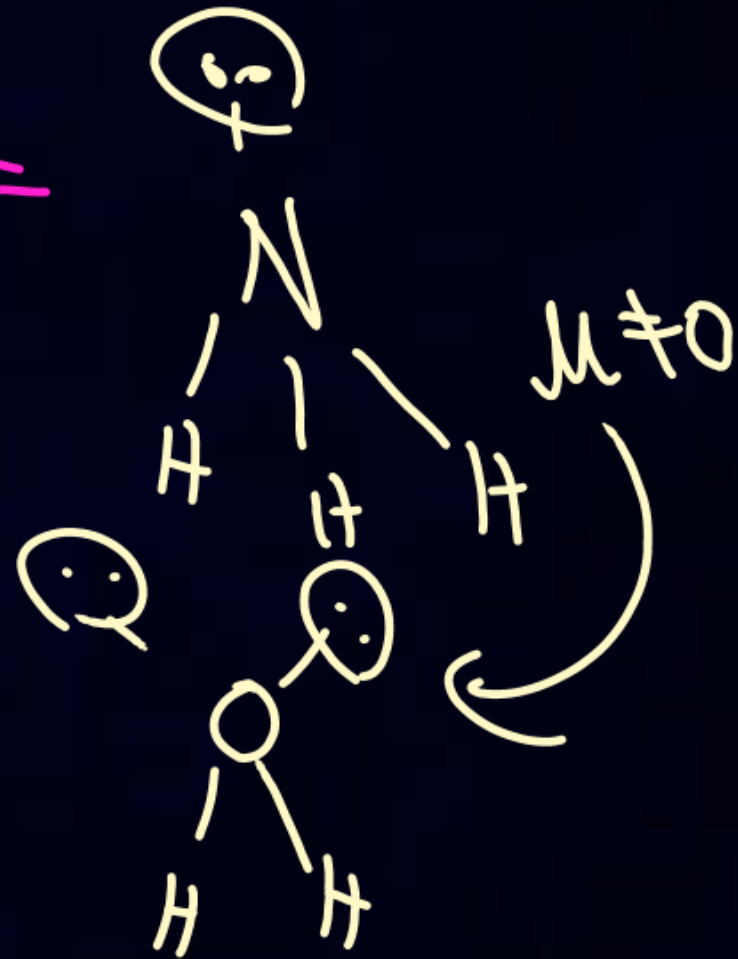
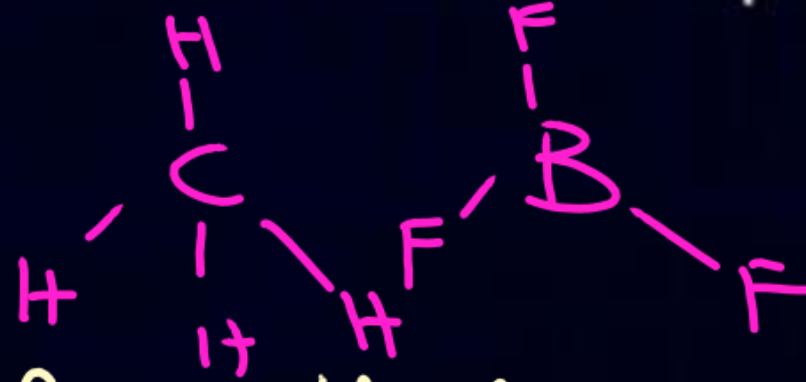
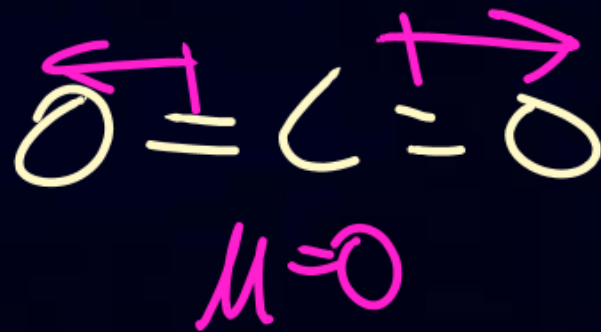
How many of the following compounds have zero dipole moment. 3

NH₃, H₂O, HF, CO₂, SO₂, BF₃, CH₄



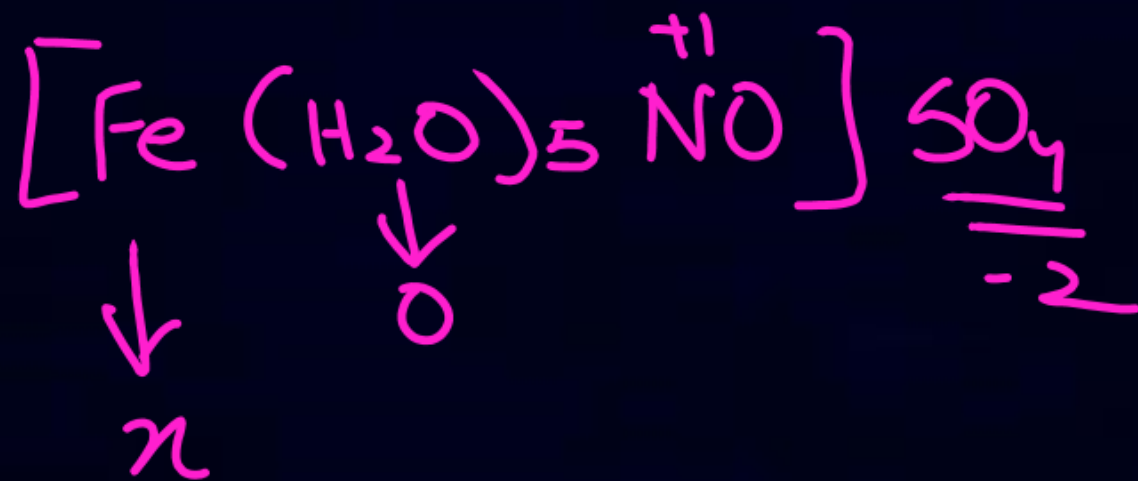
$\mu = 0 \Rightarrow$ Regular geo \Rightarrow No l.p.

$\mu \neq 0 \Rightarrow$ Irregular geo \Rightarrow l.p. ✓



What is the oxidation state of Fe in complex formed in Brown ring Test.

- ☒ A 1
- ☐ B 2
- ☐ C 3
- ☐ D 4





Why does oxygen show anomalous behaviour

F; N

- A ☒ Large size, high electronegativity
- B ☐ Small size, small electronegativity
- C ☒ Small size, high electronegativity, absence of vacant d-orbital
- D ☒ Large size, high electronegativity, presence of vacant d-orbital

Ques 10 P0



Which of the following has highest Ionisation Enthalpy?

- A ☒ N $\Rightarrow 2p^3 \Rightarrow$ half-filled $\Rightarrow 2^{nd}$ per
- B ☐ C $\Rightarrow 2p^2 \Rightarrow 2^{nd}$ per.
- C ☐ Si $\Rightarrow 3s^2$
- D ☐ Al $\Rightarrow 3s^2$

\downarrow AS \uparrow IE \downarrow



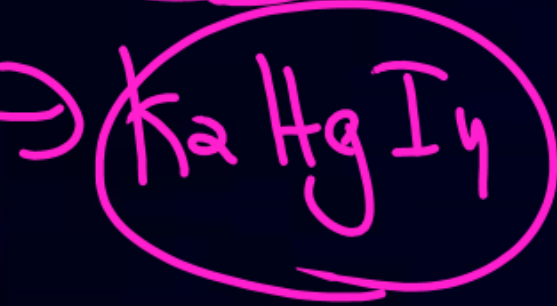
Nessler's reagent gives brown colour with

A CO_2

~~B NH_3~~

C SO_2

D CO





Which of the following will give brilliant red ppt. with dmg?

- ☒ A Ni^{2+}
- ☐ B Co^{2+}
- ☐ C Mn^{2+}
- ☐ D Fe^{2+}

Coordination \Rightarrow Application.
Salt Analysis.



IUPAC name of K_2MnO_4 is:

Anionic

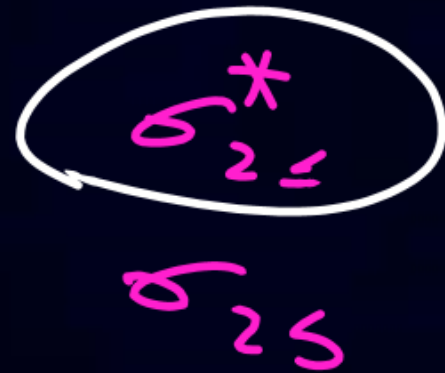
- ☒ A Potassium tetraoxomanganate (VI)
- ☐ B Potassium tetraoxomanganate (III)
- ☐ C Potassium tetraoxomanganese (VI)
- ☐ D Tetraoxomanganese (VI) potassium



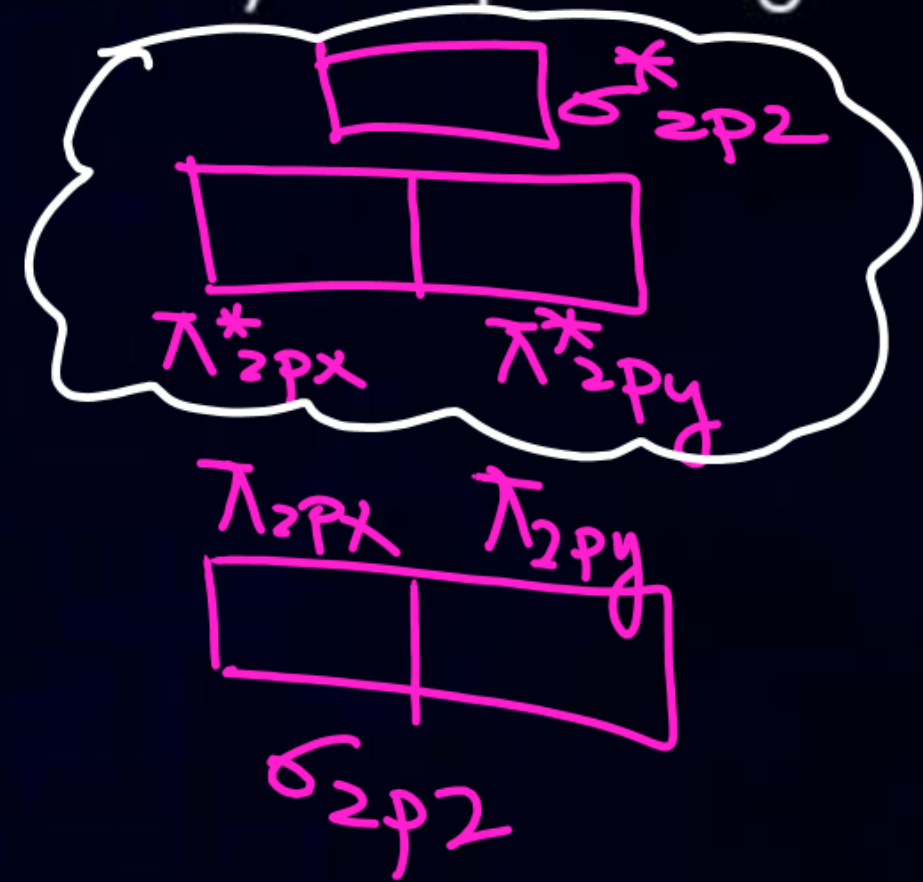
How many antibonding molecular orbitals are formed by 2s-2p mixing

4

$2s \Rightarrow$



$2p \Rightarrow$





Statement-1: 'F' has maximum negative ^(F)electron gain enthalpy in its group.

Statement-2: 'O' has least negative electron gain enthalpy in its group.

- A Statement-1 is true, statement-2 is false
- ☒ B Statement-1 is false, statement-2 is true
- C Statement-1 is true, statement-2 is true
- D Statement-1 is false, statement-2 is false

EXP $F > Cl > Br > I$ XX
 $Cl > F > Br > I$ (EEE)
EXP $O > S > Se > Te$
Add 1 - $S > Se > Te > O$



THANK
YOU