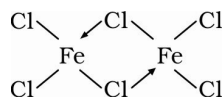


Daily Tutorial Sheet-13

Level - 3

147.(B) Bond angles of ClF_3 , PF_3 , NH_3 & BF_3 are 90° , 101° , 106° , 120° respectively
Hence **(B)** is the correct answer.

148.(A) At low temperature (400°C), FeCl_3 vapours exists in dimeric form Fe_2Cl_6



149.(A) ONCN (nitrosyl cyanide)



Least formal charge more stable.

150.(D) BF_3 has trigonal planar structure. So $\mu = 0$

151.(D) Two different non-axial d-orbitals will lie in planes perpendicular to each other hence, such d-orbitals will not form π -bond

152.(D) $\text{C}_2 \longrightarrow \text{C}_2^+$ Bond order decreases from 2 to 1.5

$\text{CN} \longrightarrow \text{CN}^+$ Bond order decreases from 2.5 to 2

$\text{N}_2 \longrightarrow \text{N}_2^+$ Bond order decreases from 3 to 2.5

$\text{O}_2 \longrightarrow \text{O}_2^+$ Bond order increases from 2 to 2.5