

HINTS & SOLUTION WORKBOOK-1

Chemical Bonding - I & II

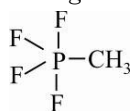
Daily Tutorial Sheet-12

Level - 3

141.(D) N can form $p\pi - p\pi$ multiple bonds with itself and with carbon and oxygen. P and As due to large size do not show π - bonding tendency.

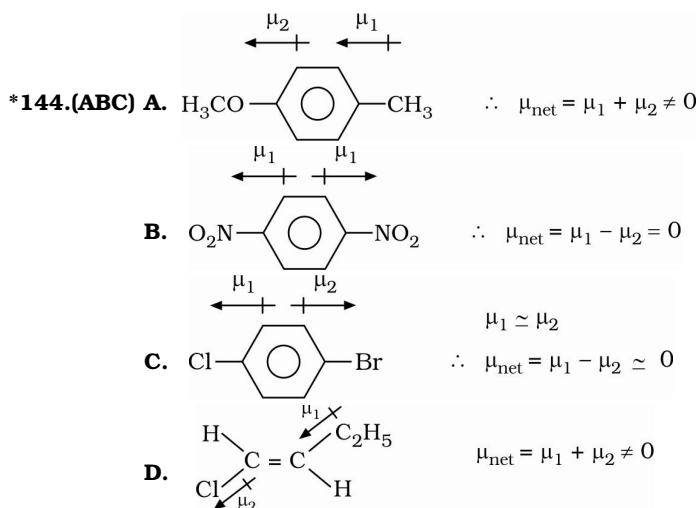
142.(A) $PF_4CH_3 - sp^3d$ (Trigonal bipyramidal)s

Electronegative elements prefer to attach axial position in TBP geometry.



***143.(BC)** $F_2B - C \equiv C - BF_2$ is planar. All atoms are in same plane.
(sp)(sp)

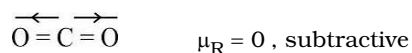
$N(SiH_3)_3$ is planar due to back bonding.



145.(B) $N_2 : KK * (\sigma 2s)^2 (\sigma^* 2s)^2 (\pi 2px)^2 (\pi 2py)^2 (\sigma 2pz)^2$

146. [A - p, r; B - q, s; C - p, s; D - p, r]

(A) CO_2



(B) $\mu \neq 0$

Additive

(C) $\mu_R \neq 0$, subtractive

(D) $\mu_R = 0$, Subtractive