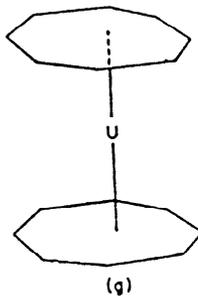
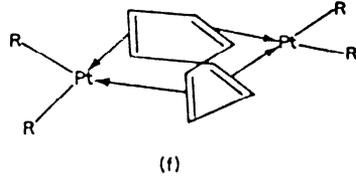
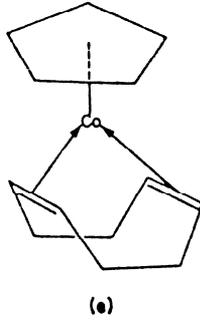
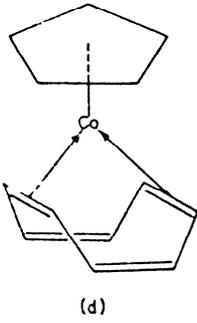
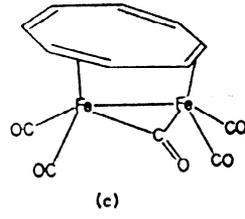
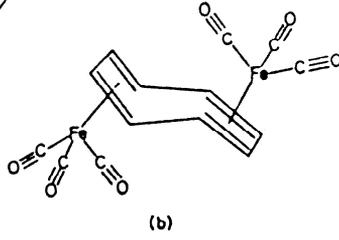
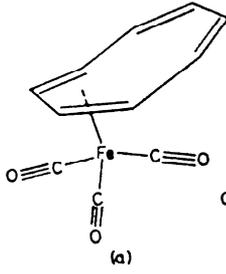
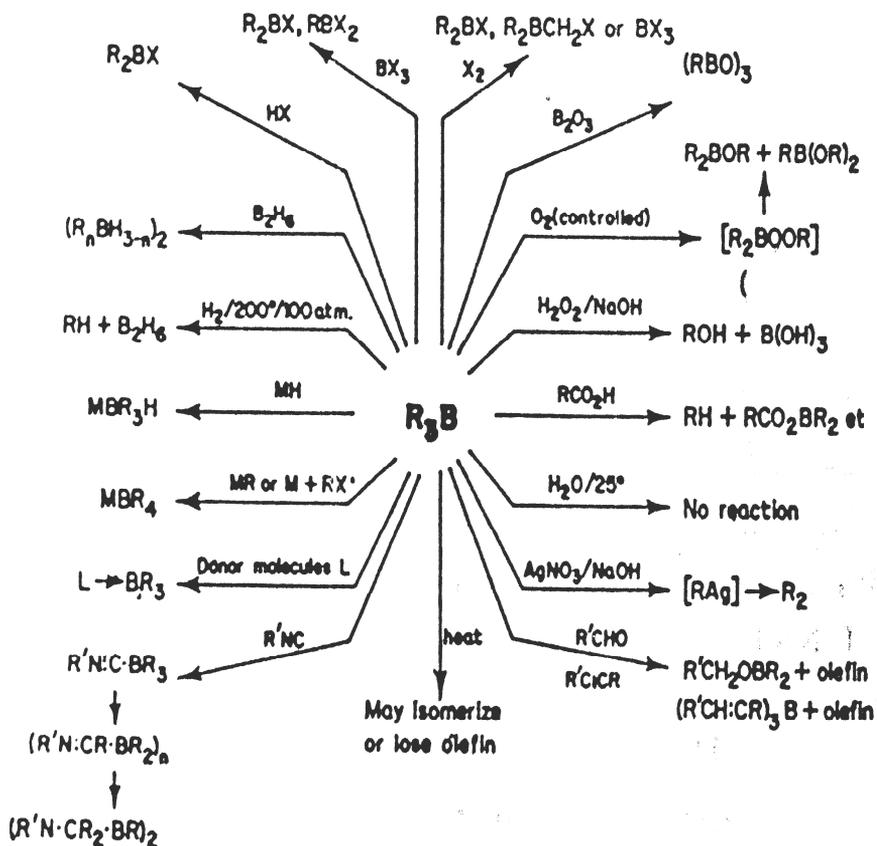


الملاحق

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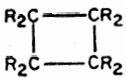
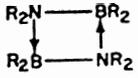
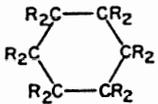
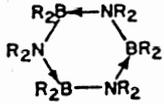
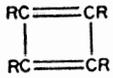
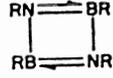
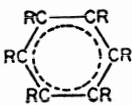
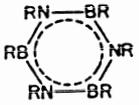
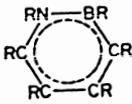
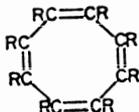
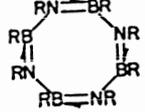
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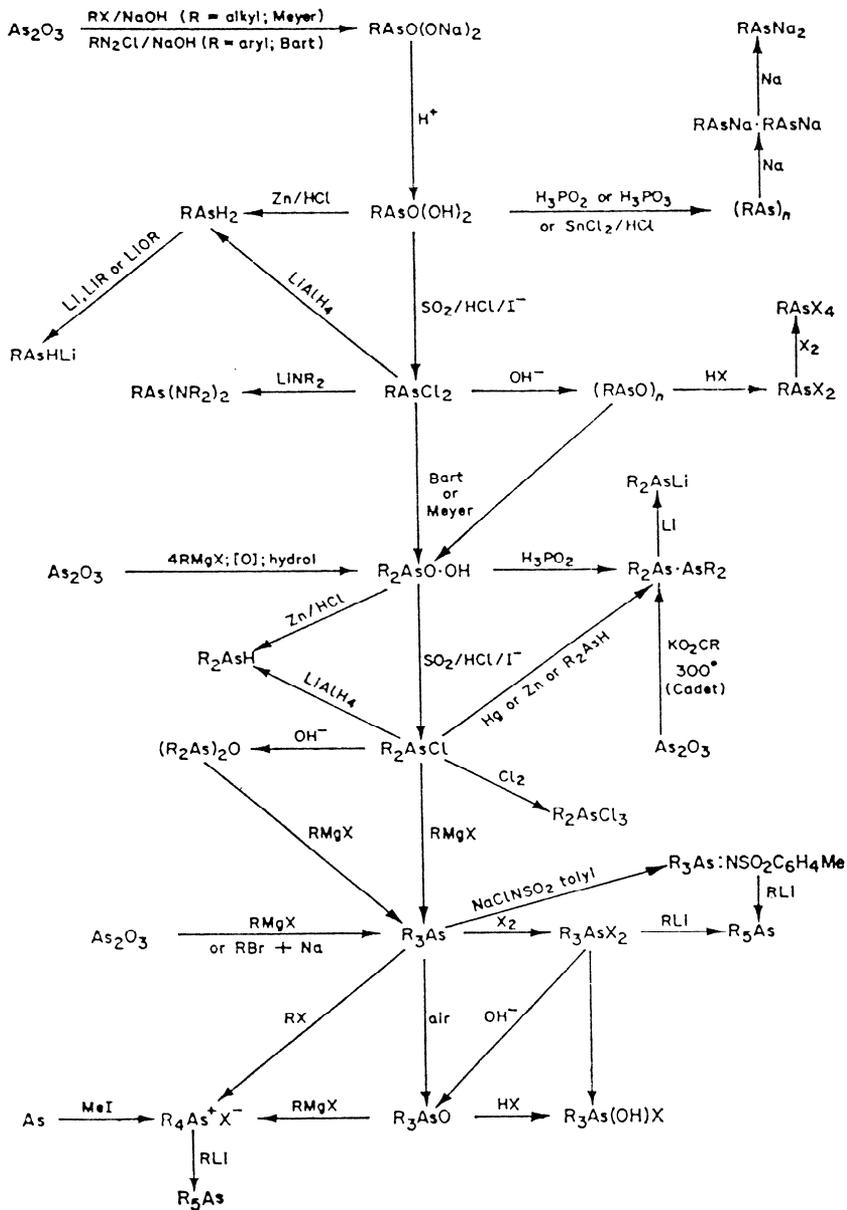
ملحق رقم (3)

Organic compound

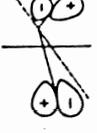
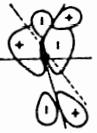
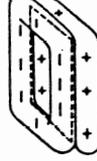
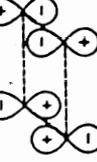
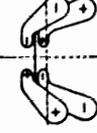
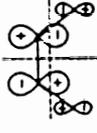
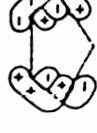
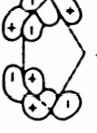
Boron-nitrogen analogue

Alkane	R_3C-CH_3	$R_3N \rightarrow BR_3$	borane adduct (borazane)
	$(R_3C)_2CH_2$	$(R_3N)_2BR_2^+ X^-$	boronium salt
alkene	$R_2C=CH_2$	$R_2N=BR_2$	monomeric aminoborane (monomeric borazene)
cycloalkane			dimeric aminoborane (cycloborazane)
			trimeric aminoborane (cycloborazane)
alkyne	$RC \equiv CH$	$RN \equiv BR$	monomeric borazyne
allene	$R_2C=C=CH_2$	$R_2C=N=BR_2$	monomeric ketimino- borane
cyclobutadiene			boretane (dimeric borazyne)
benzene			borazine, borazole (trimeric borazyne)
			borazarene
cyclooctatetraene			borazocine (tetrameric borazyne)

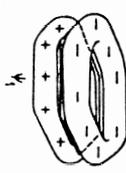
ملحق رقم (4)



ملحق رقم (5)

	Classified as σ -symmetry	Classified as π -symmetry	Classified as δ -symmetry
3-electron π -allyl			
4-electron cyclobutadiene			
butadiene			
5-electron π -cyclopentadienyl			

ملحق رقم (6)

<p>6 - electron benzene</p>		<p>Metal atomic orbitals with correct symmetry to overlap with the MOs of ligands</p>
