


Student Study Projects

2020-21

S.No.	Name of the Student	Class	Name of the Study Project	Remarks
1	M. Kethana S. Shylaja	BSc-MPC-III BSc-BZC-III	Boranes and Carboranes	Submitted
2	E. Anasa B. Savathi T. Vinay	BSc-BZC-III BSc-BZC-III BSc-BZC-II	Spectral data of organic compounds	Submitted


PRINCIPAL
 Govt. Degree College
 PEDDAPALLI, Dist.


R. SANJEEV, M.Sc (M.Phil)
 Lecturer in Chemistry
 Govt. Degree College
 PEDDAPALLY

Boxanes

And

Carboxanes

STUDY PROJECT

CHEMISTRY PAPER

SUBMITTED TO

DEPARTMENT OF CHEMISTRY
GOVERNMENT DEGREE COLLEGE
PEDDAPALLY

BY

MURHYALA KETHANA

BARLA SHYLATA

GUIDED BY

CAPT. R. SANJEEV LECTURER IN CHEMISTRY

Boranes:-

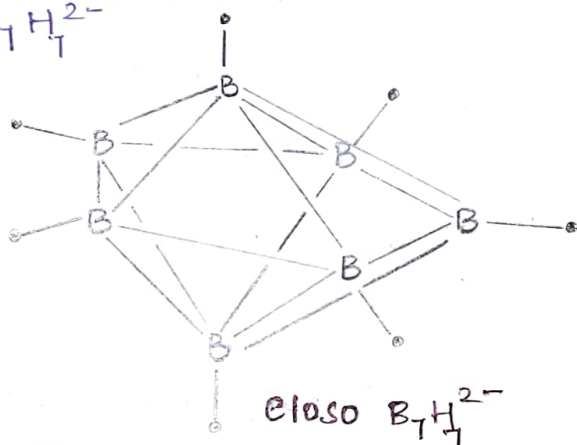
The compounds in which bonding is present between boron and hydrogens are called boranes. Based on arrangement of units, Boranes are classified into five types.

1. closo boranes
2. Nido boranes
3. Arachno boranes
4. Hypo boranes
5. Klado boranes

Closo boranes:- The Boranes in which number of valence electron pairs are equal to polyhedron vertices are called closo boranes. each vertex contain one B-H bond.

These boranes contain B_nH_{n+2} , $B_nH_{n+1}^-$, $B_nH_n^{2-}$ formula.

EX:- $B_6H_6^{2-}$, $B_7H_7^{2-}$



Nido boranes:- The boranes which are formed by removal one vertex from polyhedron structures is called Nido boranes.

Nido means Nest like structure. These boranes contain

B_nH_{n+4} , $B_nH_{n+3}^-$, $B_nH_{n+2}^{2-}$ formulae.

EX:- B_2H_6 , B_5H_9 , B_6H_{10} .

