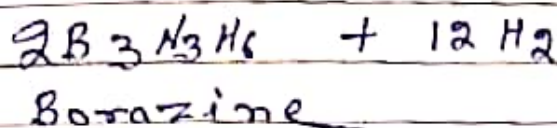
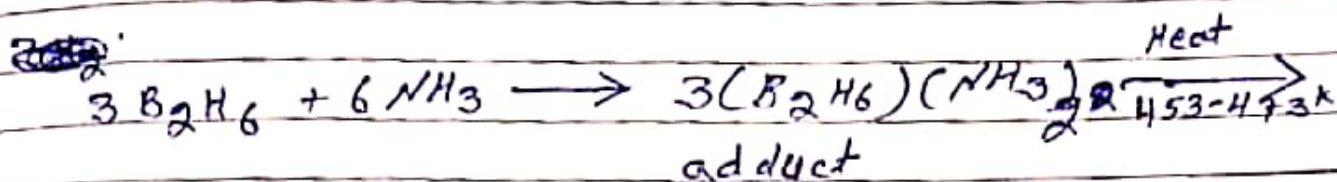
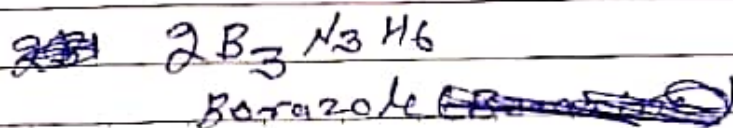
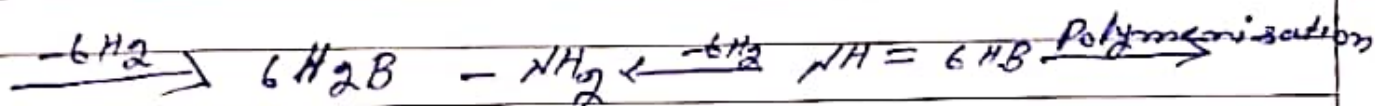
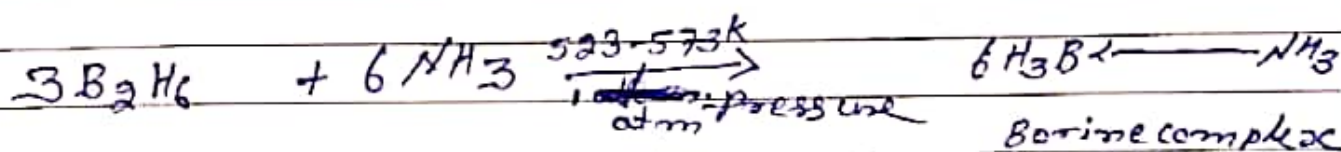


Preparation of Borazine

(1) pyrolysis of diborane and ammonia adduct at 453-473K produced borazine for the first time.



(2) Direct reaction of diborane with ammonia at 523-573 K under 1 atmospheric pressure produces 50% borazine. Formation of borine complex $\text{H}_3\text{B} \leftarrow \text{NH}_3$ which loses hydrogen and undergoes polymerisation occurs in this reaction.



Teacher's Signature _____

Expt. No. _____

$$= 1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 3d^{10}, 4s^2, 4p^6, 4d^4, 5s^1$$

$$Pd_{46} = 1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 4s^2, 3d^{10}, 4p^6, 5s^2, 4d^8,$$

$$= 1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 3d^{10}, 4s^2, 4p^6, 4d^8, 5s^2$$

$$= 1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 3d^{10}, 4s^2, 4p^6, 4d^9, 5s^1$$

$$= 1s^2, 2s^2, 2p^6, 3s^2, 3p^6, 3d^{10}, 4s^2, 4p^6, 4d^{10}$$

Teacher's Signature _____