

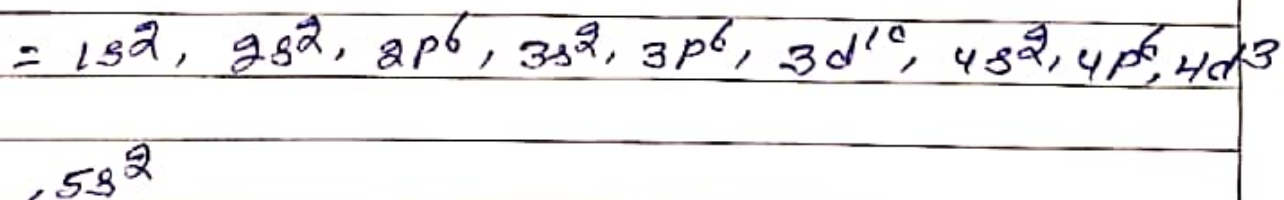
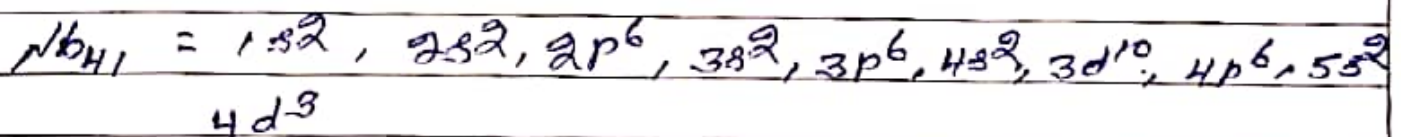
Electronic configuration of elements of 3rd type. $\Rightarrow$ Elements of 3rd type of atomic number (Nb_{41} , Ta_{73} , Ru , 44 , Rh_{45} and Pt_{78}) Pd_{46} will be written in 3 steps.

(i) According to Aufbau's principle.

(ii) Arranging in the increasing order of orbits.

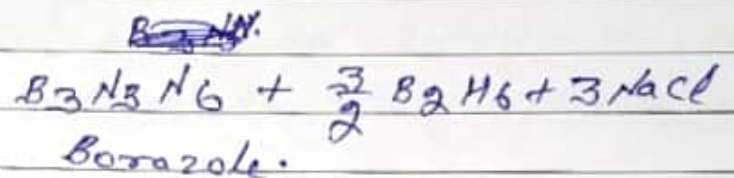
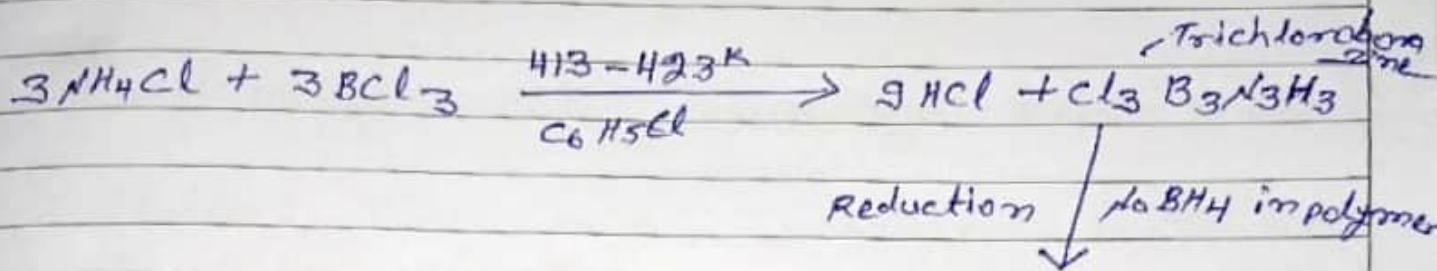
(iii) Stable electronic configuration $\Rightarrow$ In case of stable electronic configuration an electron of s-sub shell will enter into inner d-sub-shell. So in outer s-sub shell only one electron will remain.

But electronic configuration of Pd_{46} will be written in all 4 steps in 4th step an electron present in outer s-sub-shell will enter into inner d-sub shell. So no electron will remain in outer-s-sub shell.



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(3) Heating ammonium chloride and boron trichloride at 413 - 423 K with chlorobenzene present. firstly produces B-chloroborazine, which undergoes reduction with sodium borohydride in poly ether to produce borazine.



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