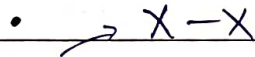




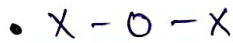
Ⓑ LDS of oxyacid with 2 or more Central Atom

→ If calculated ON < Max ox.no. of central atom, Then

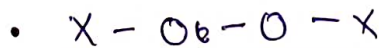


EXCEPTION: oxyacid of phosphorus.

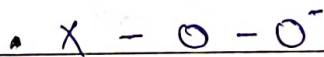
→ If calculated ON = Max. ON of central atom



→ If calculated ON > Max. ON of central atom



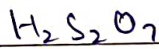
for 2 central



for 1 central,

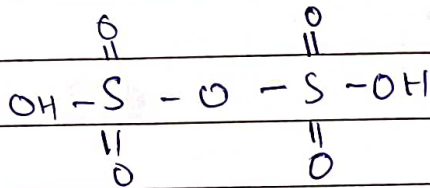
(peroxy linkage).

Ex Pyrosulphuric acid / Oleum

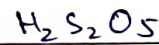


+6.

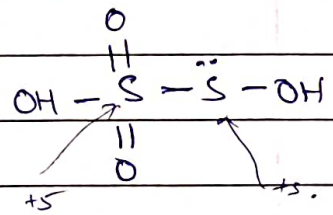
+6 = Max. ON of S.



Ex Pyrosulphurous acid



$n = +4 < \text{Max ON of S.}$

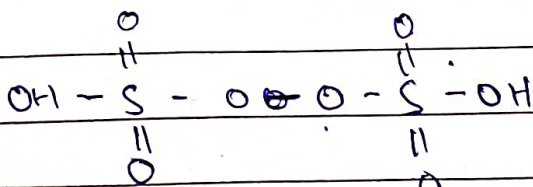


$\frac{5+3}{2} = 4$

Ex Marshall's Acid / Peroxydisulphuric acid.



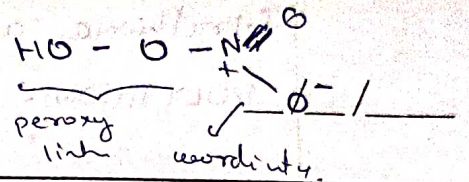
$n = +7 > \text{Max. ON}$



40.

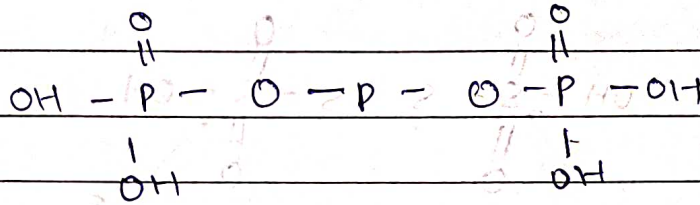
Another eg Pernitric Acid (HNO_4).

$$n = +7 > \text{Max. ON of N}$$

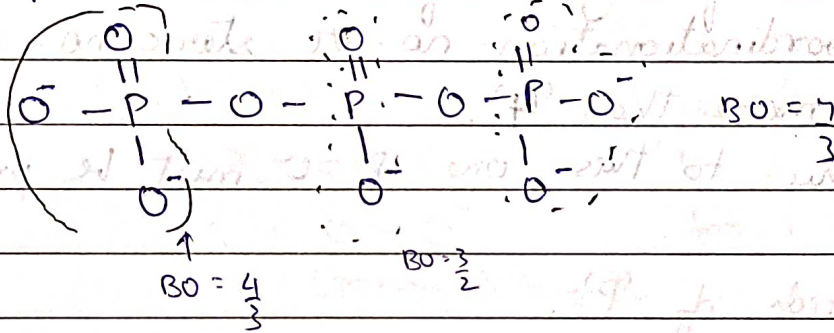


Ex ~~Pyrophosphoric acid~~ / Trip hosphoric Acid, ($\text{H}_4\text{P}_3\text{O}_{10}$).

$$n = 5 = \text{Max. ON}$$



Triphosphate ion $\text{P}_3\text{O}_{10}^{-5}$



** →

Exception. Pyrophosphorous Acid ($\text{H}_4\text{P}_2\text{O}_5$)

$$n = +3$$

• It should be like this $\text{HO} - \text{P}(\text{OH})_2 - \text{P}(\text{OH})_2 - \text{OH}$ but is wrong

• Correct one: $\text{HO} - \text{P}(\text{OH})_2 - \text{O} - \text{P}(\text{OH})_2 - \text{HO}$ (diterc).

Imp →

Hypophosphoric Acid $\text{H}_4\text{P}_2\text{O}_6$

