Organic Salts:

Lassigne's Method: Put No metal + sample in fusion
tube, heat till Red hot, cruel in a mortus pestel with wester

Used for S, N, X: Na + C+N -> NacN 2Na + S -> Na2S Na + X -> NaX

For Nitrogen (N):

filtrate + Fesoy (boiled -> wooled) + H2SO4

[Fe(cN)6)4-+4fe3+ -> fey[fe(cN)6]. H20 + (Prussian Blue).

For Sulphur (s):

1. filtrate + Na [Fe (CN) 5 NO) -> Nay [Fe (CN) 5 (NOS)]

V (Sodium Nitropruside) + (Violet)

Na2S

or S²⁻ | 2. Na2S + Pb(CH3(00)) --> PbSV + 2CH3(00 Nat

(Lead + (Blackppt))

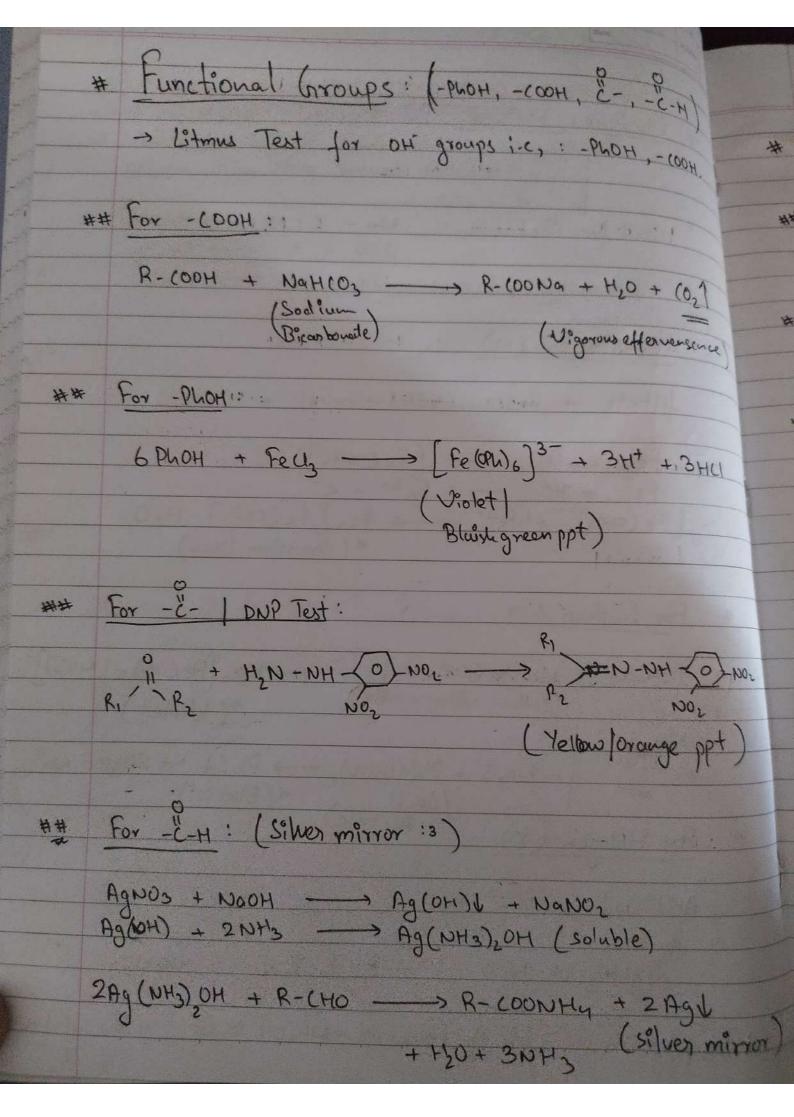
For Halogen (X)!

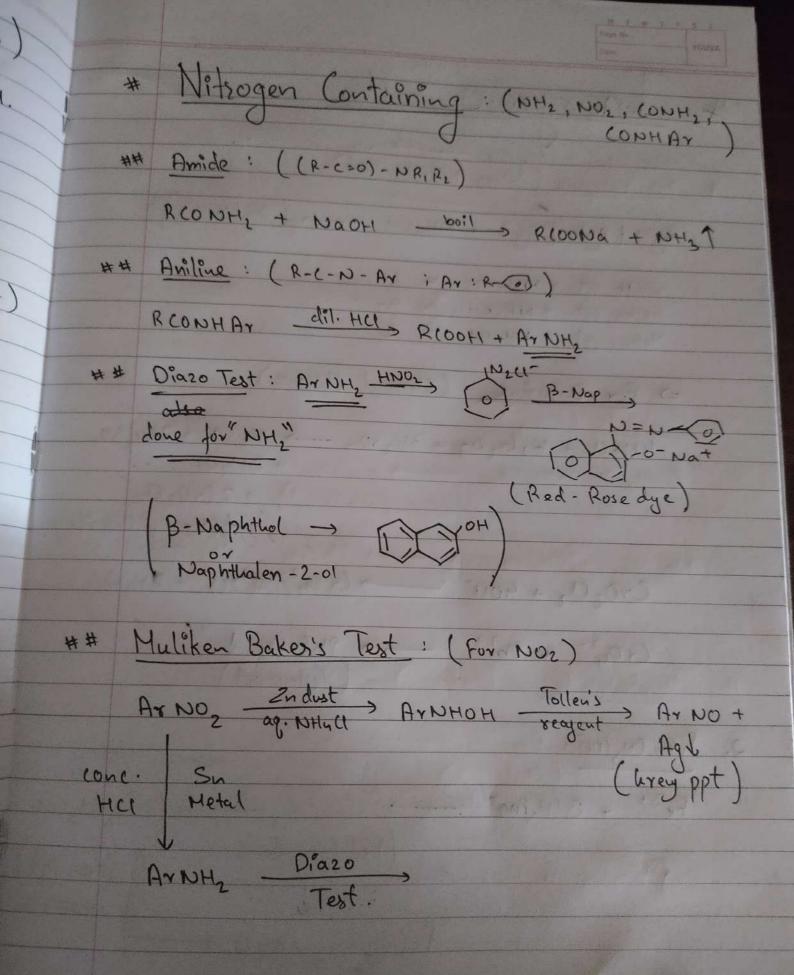
Acetate)

Acidified with HNO3

Agno3 + Nax -> AgX & + NaNo3

white ppt + NHYOH = CF; yellow ppt + NHYOH & Br; yellow ppt + NHYOH





Inorganic Salts: 1. For Halogens (Silver Nitrate Test) Agal AgBr | AgI + NHGOH - (Ag(NH3)2)+ white ppt + NH40H Yellow ppt + NHYOH ~ B~ Yellow ppt + NHGOH + I => For Chlorine : (Chronyl Chloride) 4Nacl + K2 (4207 + 3H2504 -> K2504 + 2Na2504 +34,0 + 2 CYO, El, (Chronyl Chluride) CYO, CL2 + 40H--> Croy2- + 2c1- + 2H20 Croy2- + Pb2+ -> PbCvOy d (Yellow ppt) 2. For CH3 (00 Fe3+ + 3(H3100-> Fe(LH3(00), -> Fe(OH), CH3(00 (Red Colonsation) 1 (Red ppt) Fe(CH3(00)3 + H20

3. Brown Ring Test: (NO5) Nothate

3 Fe²⁺ + NO3 + 4H⁺ -> 3 Fe³⁺ + NO + 2 H₂O

(FeSO₄) (H₂SO₄)

Fe²⁺ + NO + SH₂O -> [Fe(NO)(H₂O)₅]²⁺

4. Ferrous starch something: (NOZ) Notate

NOZ + H2SOY -> HNOZ + H3OY

3 HNOZ -> HNOZ + 2NO + H2O

• Fesoy + NO -> Fesoy. NO

(Brown dask | Black)

• NO + OL -> NOZ

(Brown fumes)

5. Sulphide: (s2-)

- · Nazs + Hzson Hzson Hzson (RoHenegg)
 Smell
- · Na2S + Pb (CH3(00)2 -> PbS + 2CH3(00-Nat (Lead Acetate) (Brownppt)

Date:

9. Sulphite: (sos2-)

· Na2 So3 + H2504 -> Na2 So4 + H2503

H2SO3 -> H2O + SO2
(Pungent Smell)

· $(r_1 O_1^{2-} + 2H^+ + 3SO_3^{2-} \longrightarrow 2(r^{3+} + 3SO_4^{2-} + H_2O_4^{2-})$ (Solution turns grean)

10. Sulphate (SOy2-)

Cacty + Nayson - > Cason + 2Nacl (white ppt)

 $Na_2 SO_4 + Pb(CH_3(00)_2 \longrightarrow PbSO_4 + 2Na(CH_3(00))$ (white ppt)

11. Thio Sulphate: (S2032-)

 $S_2O_3^{2-}$ + Pb^{2+} \longrightarrow PbS_2O_3V ($Pb(H_3(w)_2)$ (white pp+)

Pbs203 + H20 - boil > Pbs L + 2H+ + 8042(Black ppt)