

ଅବଶ୍ୟକୀୟ ଆୟନ ଯେଉଁ ଧୂଳିରେ ଉପସ୍ଥିତ ନାହିଁ, ସେଗୁଡ଼ିକୁ ଯୋଡ଼ାଯାଏ।

ଦ୍ରବଣୀକରଣ ପଦ୍ଧତି

① ଧନାତ୍ମକ ଆୟନ/ଆନିୟନ (+ve):

(K^+) Na^+ , Ca^{2+} , $Fe^{2+/3+}$, Al^{3+} , Ca^{2+} , Zn^{2+} , Mg^{2+}

② ଋଣାତ୍ମକ ଆୟନ/ଆନିୟନ (-ve):

$[SO_4^{2-}, CO_3^{2-}, Cl^-]$

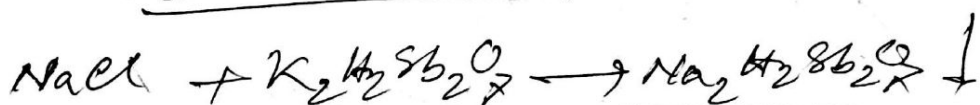
ସମସ୍ତ ଧୂଳି ସହିତ ମିଶାଇବା (H_2O/HCl)



③ ଧନାତ୍ମକ ଆୟନ/ଆନିୟନ ଯୋଡ଼ା:

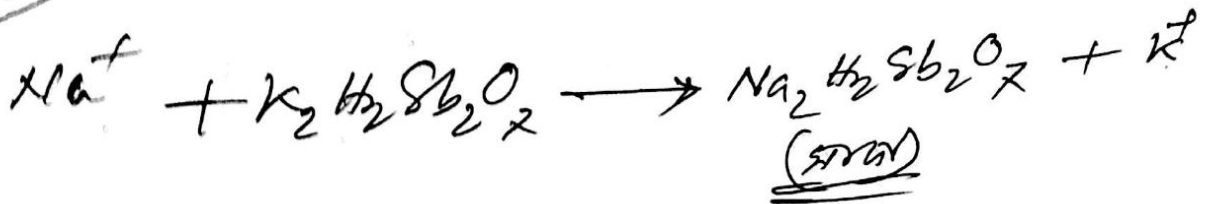
② Na^+ ଯୋଡ଼ା:

$K_2H_2Sb_2O_7$ ଯୋଡ଼ା:



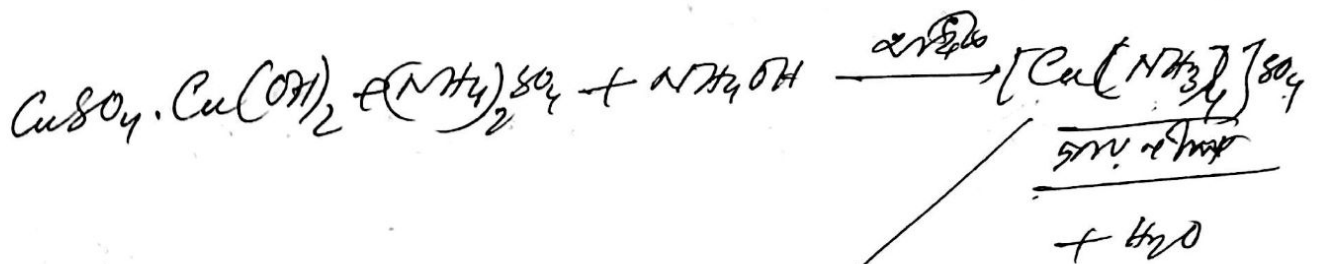
(ସମସ୍ତ) + KCl
 \rightarrow (Na^+) ଯୋଡ଼ା

① Cu^{2+}
 22/07



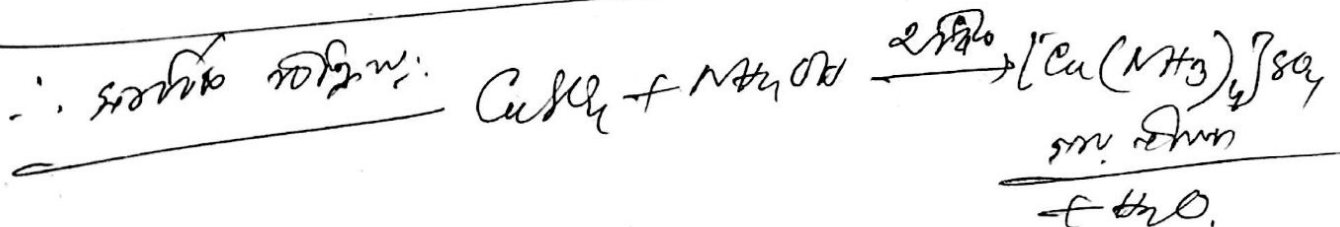
① Cu^{2+} ಪ್ರತಿಕ್ರಿಯೆ:

② NH_4OH ಸೇರಿಸಿದಾಗ:



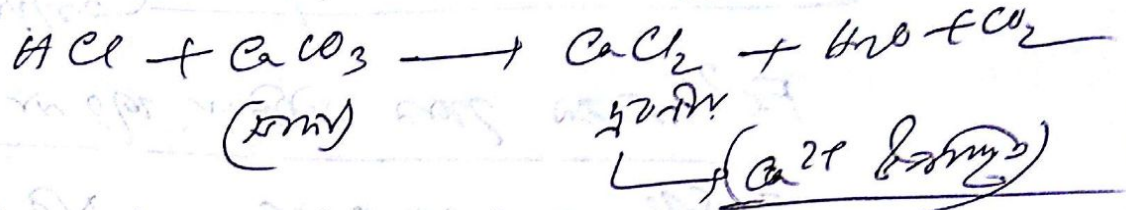
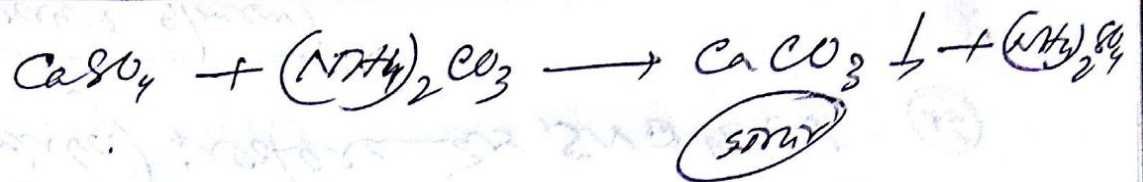
ಪ್ರತಿಕ್ರಿಯೆ ಸಮೀಕರಣ

Cu^{2+} ಪರೀಕ್ಷೆ

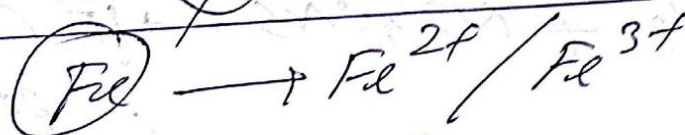


✓

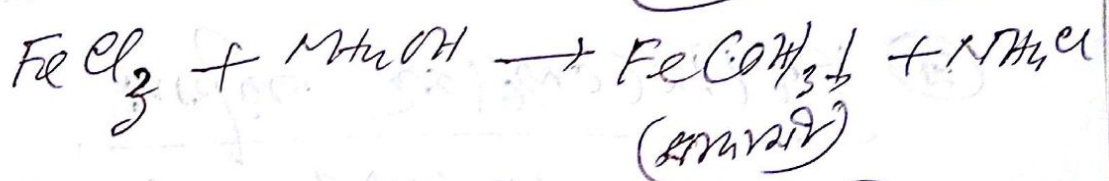
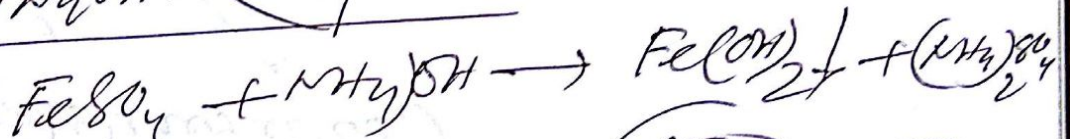
② $(\text{NH}_4)_2\text{CO}_3$ ಸ್ರವ ಪ್ರತಿಕ್ರಿಯೆ:



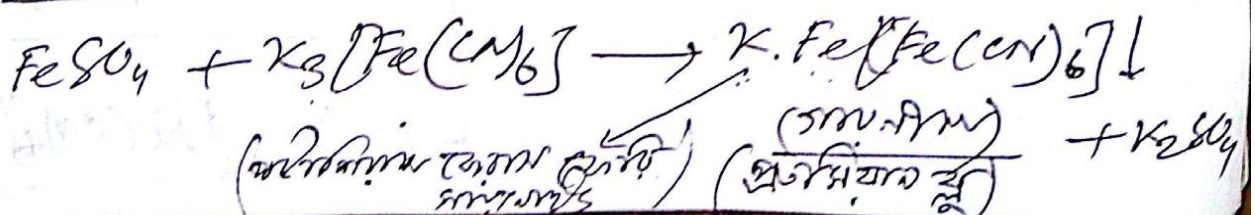
④ Fe / ZnO₂ / ZnO₂ ಸ್ರವ ಪ್ರತಿಕ್ರಿಯೆ:

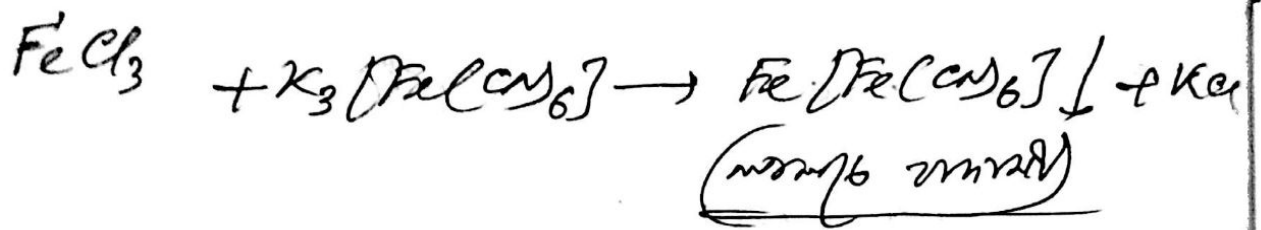


⑤ NH_4OH ಸ್ರವ ಪ್ರತಿಕ್ರಿಯೆ:



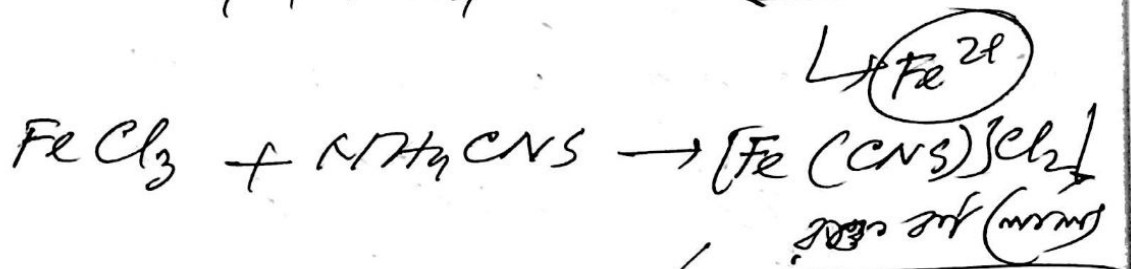
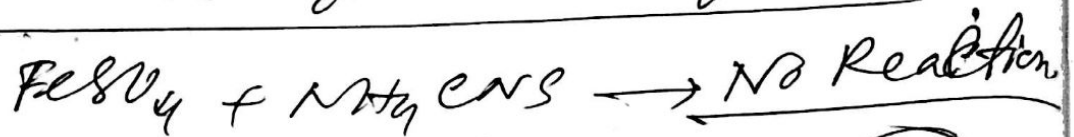
⑥ $\text{K}_3[\text{Fe}(\text{CN})_6]$ ಸ್ರವ ಪ್ರತಿಕ್ರಿಯೆ:





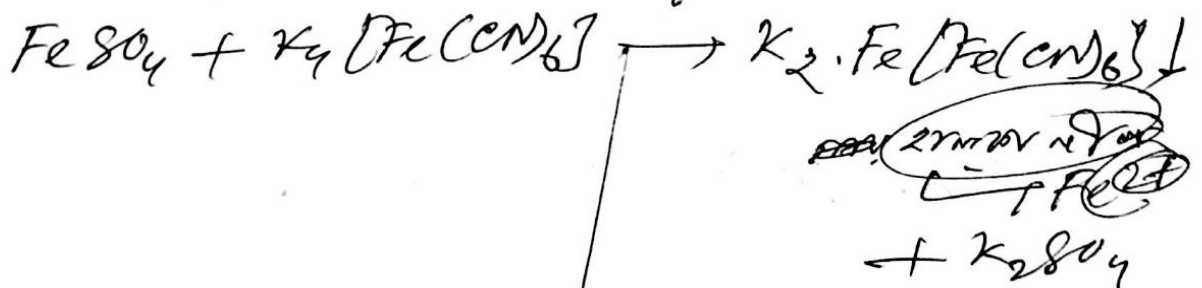
⑤ NH_4CNS test for iron (brown color)

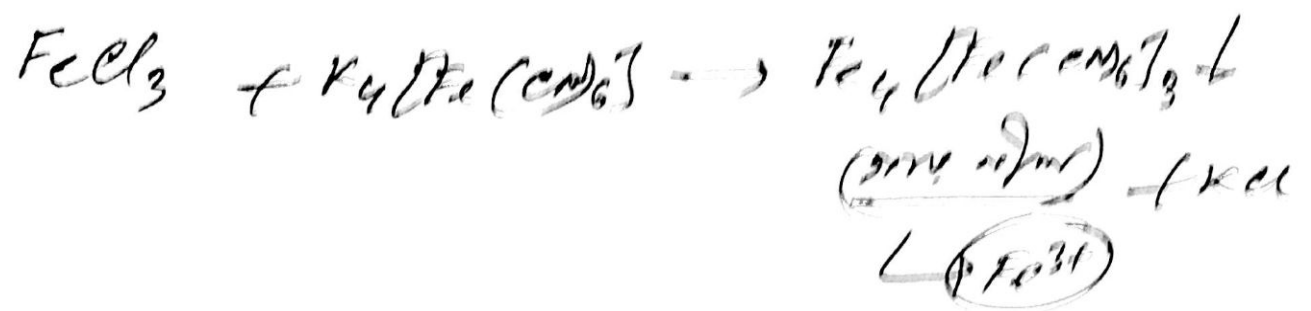
Fe^{2+} test for iron

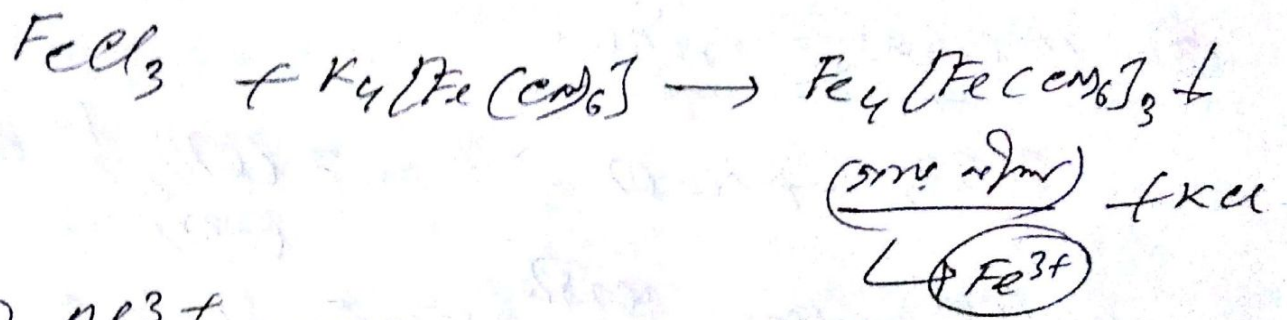


+ NH_4Cl
(brown color in solution)

⑥ $\text{K}_4[\text{Fe}(\text{CN})_6]$ test for iron

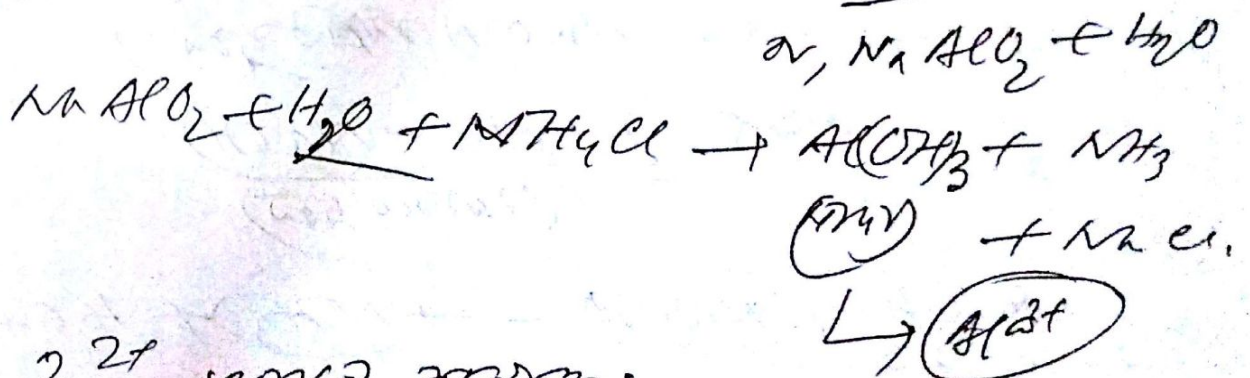
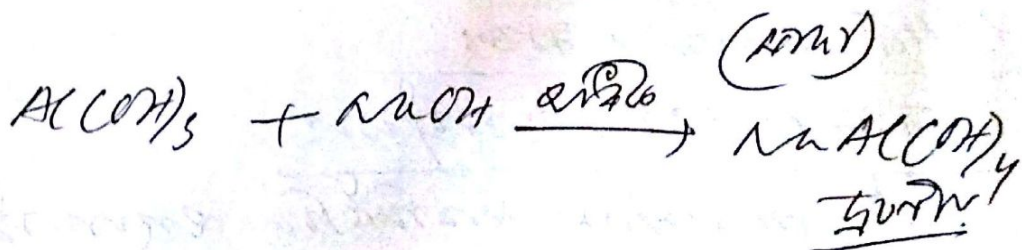
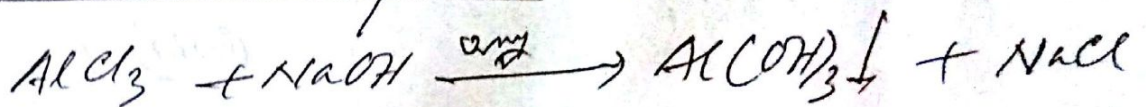






⑤ Al^{3+} ਆਇਨ :

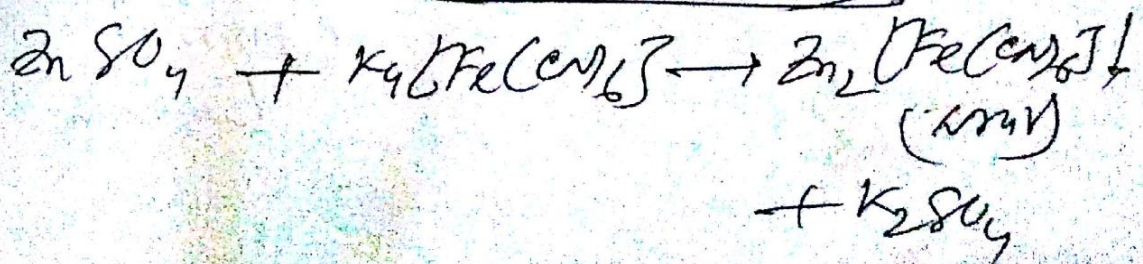
NaOH ਨਾਲ ਪ੍ਰਤੀਕਰਮ :



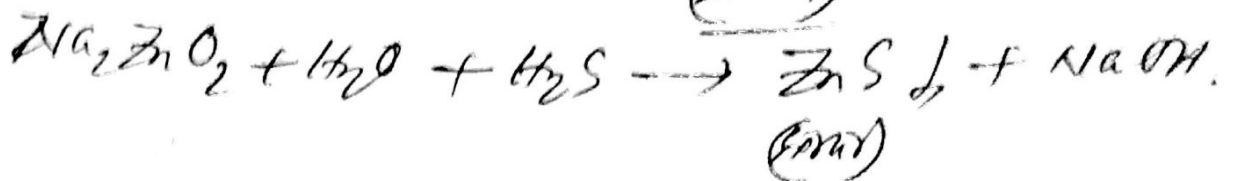
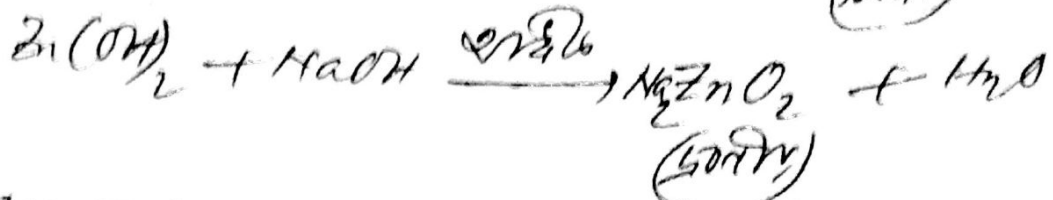
⑥ Zn^{2+} ਆਇਨ ਆਇਨ :

① $\text{K}_4[\text{Fe}(\text{CN})_6]$ ਨਾਲ ਪ੍ਰਤੀਕਰਮ :

\downarrow Cu^{2+} ਨਾਲ ਪ੍ਰਤੀਕਰਮ



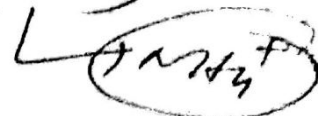
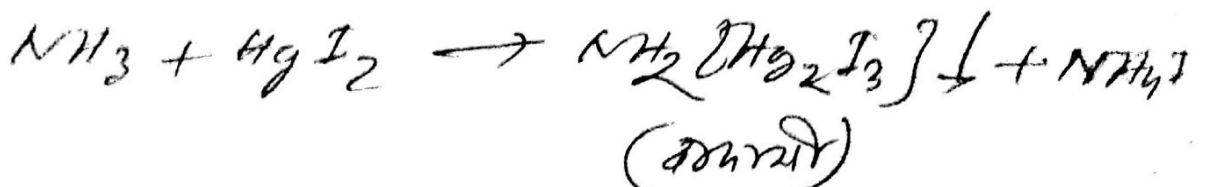
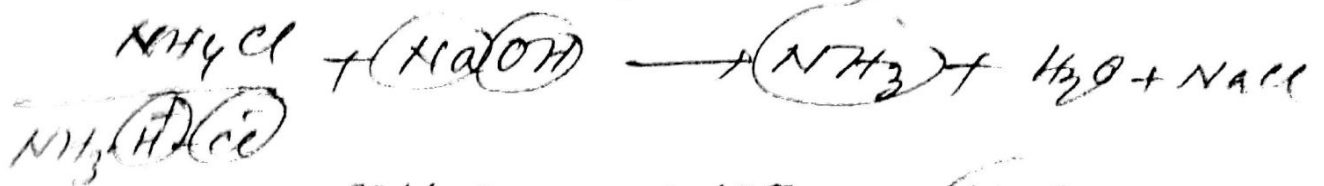
⑥ NaOH ಸ್ತಂಭ ಪರೀಕ್ಷೆ:



⑦ NH₄⁺ ಅಯನ ಪರೀಕ್ಷೆ:

ಪ್ರತಿಪಕ್ಷಾಂಶ ಹಂತ ಪರೀಕ್ಷೆ:

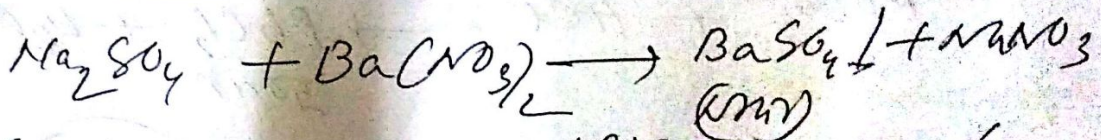
→ (ಪ್ರತಿಪಕ್ಷಾಂಶ ಪರೀಕ್ಷೆಗೆ ಅಗತ್ಯವಿರುವ (K₂HgI₄)
3 ಭಾಗ (NaOH/KOH) ಪರಿಶುದ್ಧ ಹಂತ
ಅಧಿಕ (K₂HgI₄ + NaOH)
(ಪ್ರತಿಪಕ್ಷಾಂಶ ಹಂತ)



કે સોડિયમ સલ્ફાઇડ/સલ્ફેટ જાણવા:

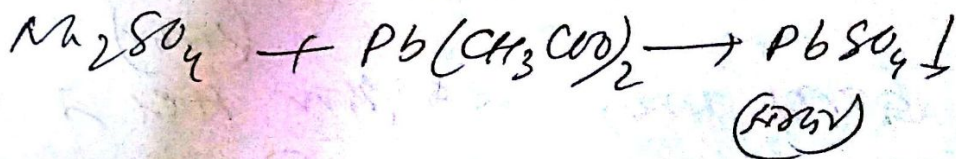
① SO_4^{2-} જાણવા જાણવા:

② $Ba(NO_3)_2$ ના પરીણામ:



જોવા માટે (જોવા માટે) HCl , HNO_3 ના ઉપયોગ, ^

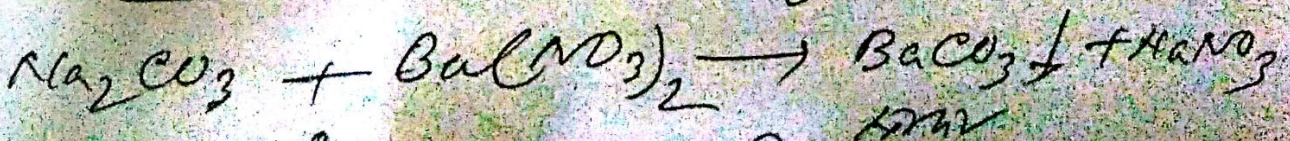
③ $Pb(CH_3COO)_2$ ના પરીણામ:



જોવા માટે (જોવા માટે) HCl ના ઉપયોગ, CH_3COONa ના ઉપયોગ

④ CO_3^{2-} જાણવા જાણવા:

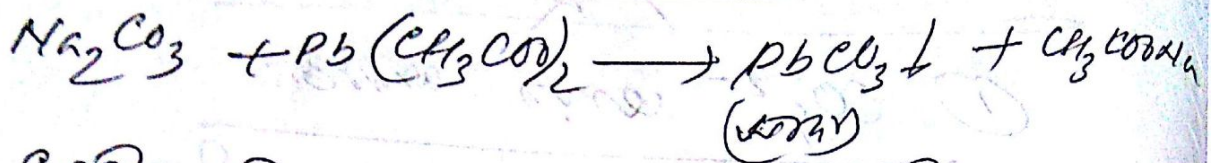
② $Ba(NO_3)_2$ ના પરીણામ:



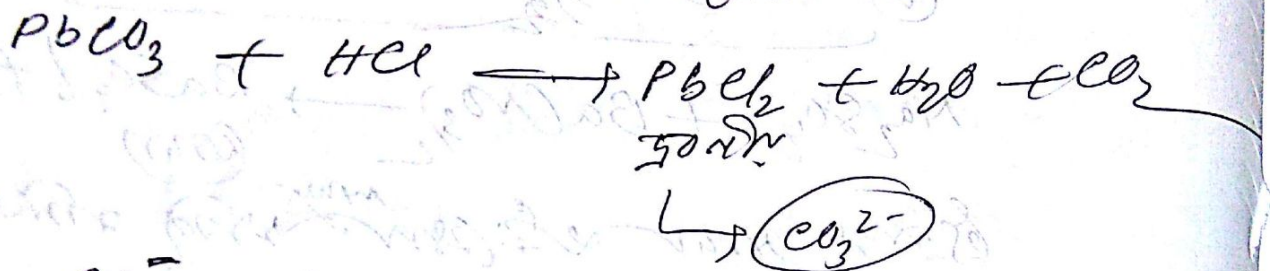
જોવા માટે (જોવા માટે) HCl ના ઉપયોગ,



② $Pb(CH_3COO)_2$ ની તૃતીય:

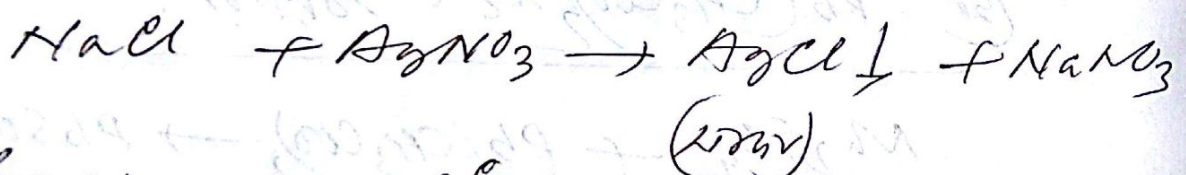


ઝાડા જાડા નાન ઝાડા (ઝાડા જાડા)

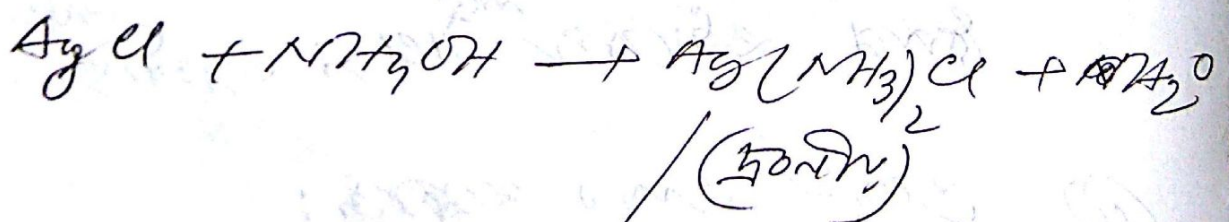


③ Cl^- ની તૃતીય:

$AgNO_3$ ની તૃતીય:



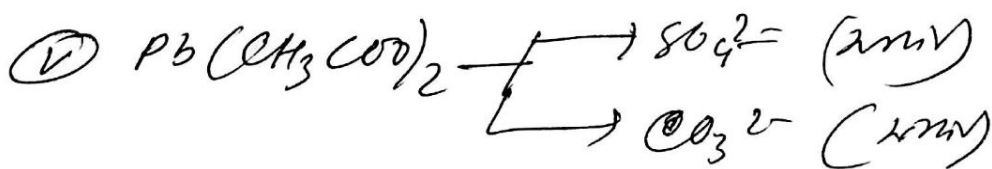
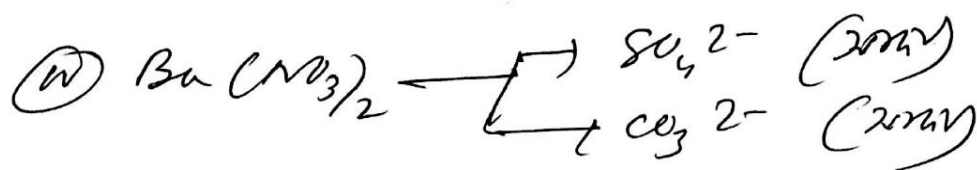
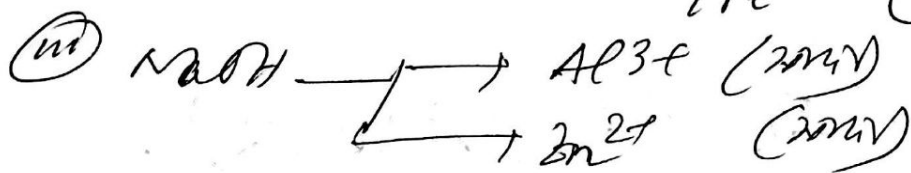
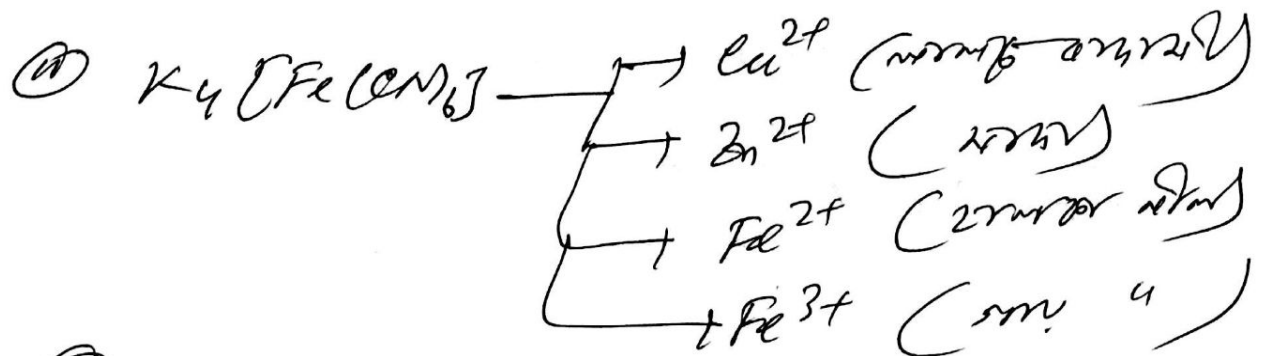
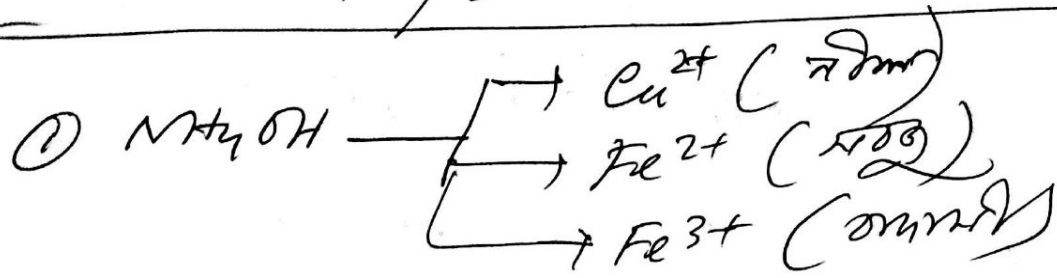
ઝાડા નાન ઝાડા (ઝાડા HCl ની તૃતીય,
જોડા NH_4OH ની તૃતીય,



ઝાડા ઝાડા (ઝાડા ઝાડા,
ઝાડા)



ଉତ୍ତର ଦିଅନ୍ତୁ/ସମ୍ବନ୍ଧିତ ଉତ୍ତର ଦିଅନ୍ତୁ:



ଉତ୍ତର ଦିଅନ୍ତୁ: (ସବୁ)

ଉତ୍ତର ଦିଅନ୍ତୁ/ସମ୍ବନ୍ଧିତ ଉତ୍ତର ଦିଅନ୍ତୁ:

ଉତ୍ତର ଦିଅନ୍ତୁ: (ସବୁ)

Q. ગાંધીજી / સત્યજી :

$R_f = \text{Retention factor}$

$$R_f = \frac{\text{દો-ઘડો લઈશો તો}}{\text{કાગર 1 2}}$$

R_f નો ગોળાર્ધ :

Q. ગાંધી / સત્ય (મો) :