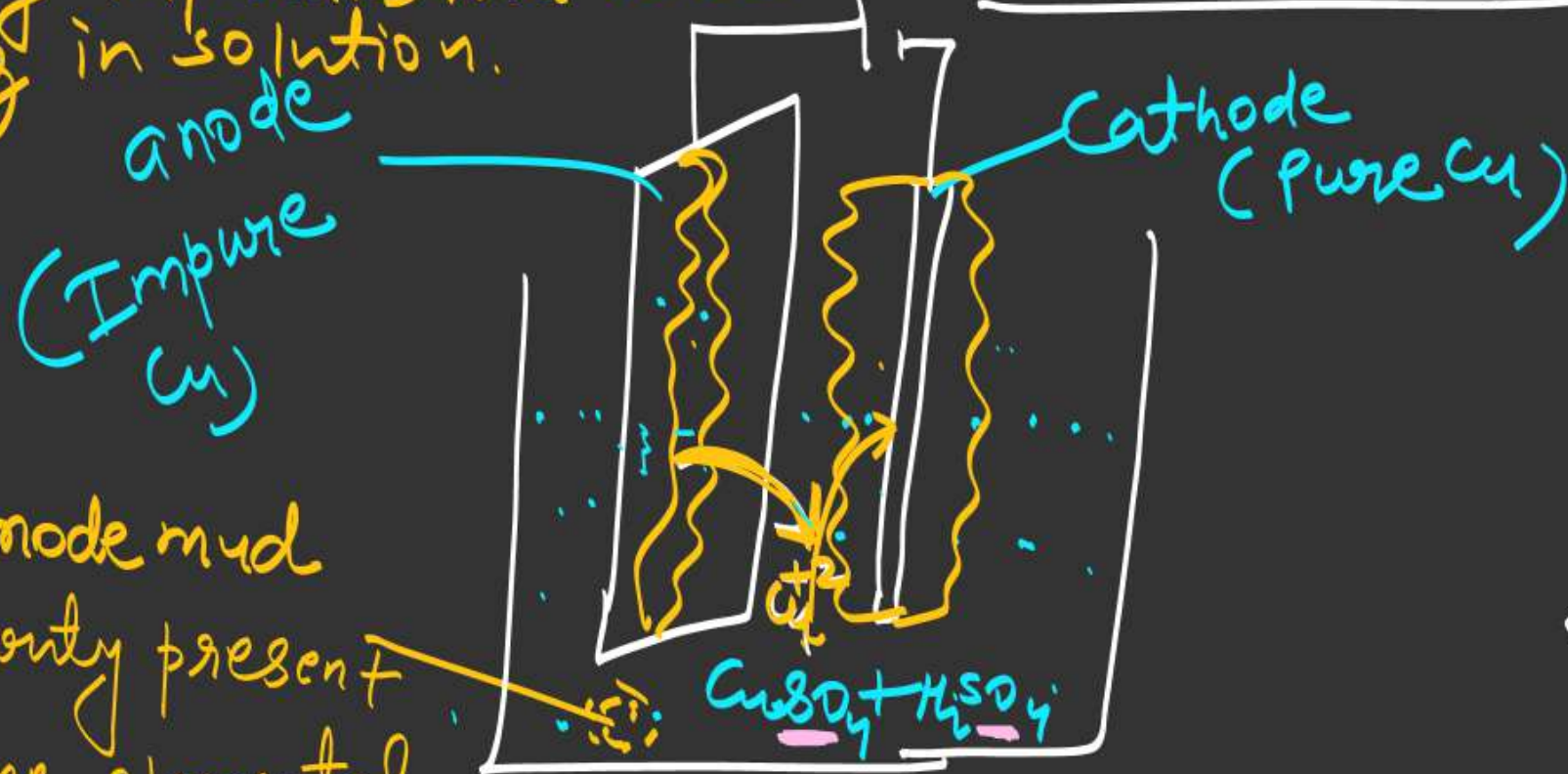


Purification

Impurities are present

In anode then find the order of impurities that are coming in solution.

① Electrorefining

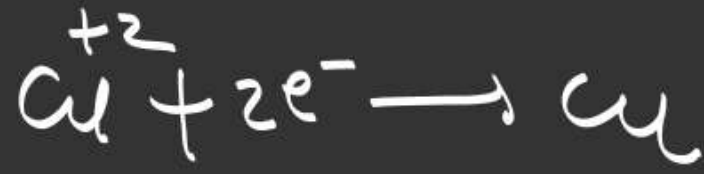


anode mud
(Impurity present in the elemental form)

at anode

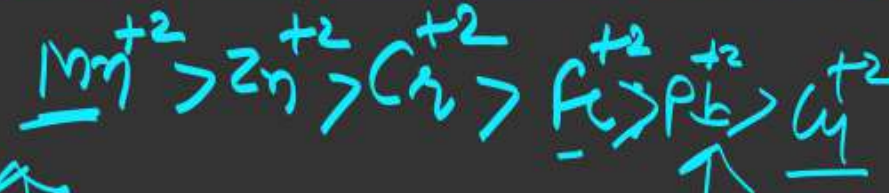


at Cathode



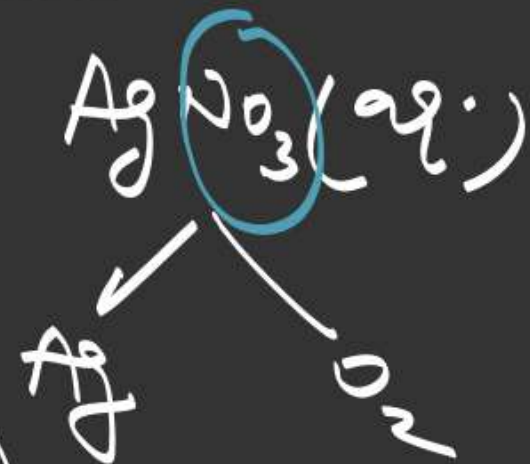
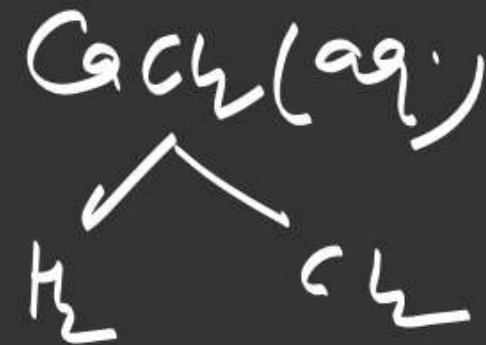
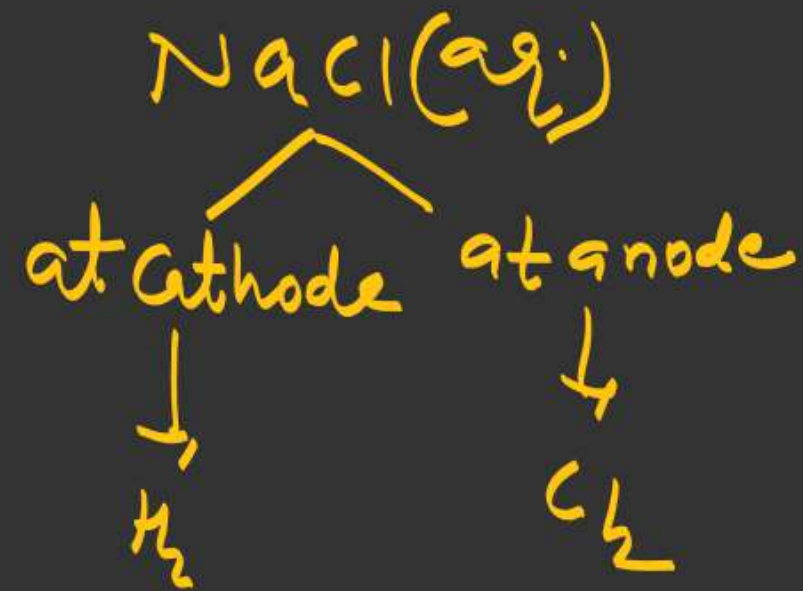
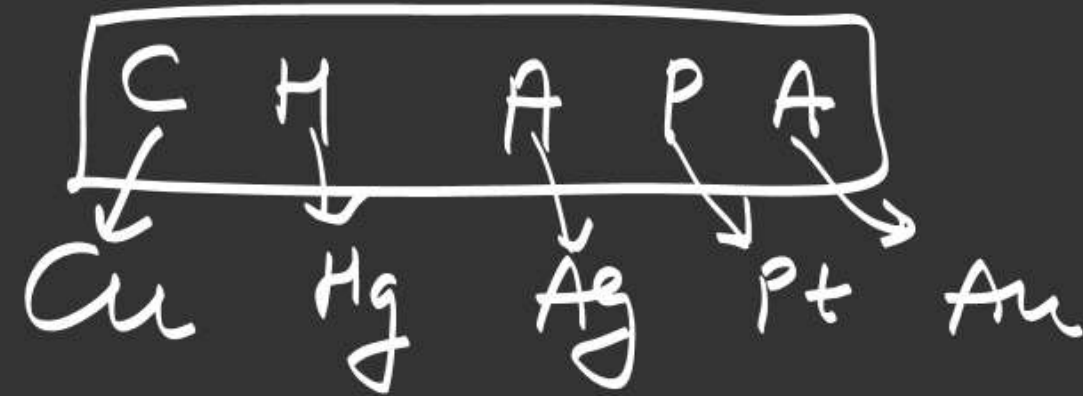
Li
K
Ca
Na
Mg
Al
Mn
Zn
Cu
Fe
Cd
Co
Ni
Sn
Pb
H ₂
Cu
Hg
Ag
Au

↑ oxid. pot. ↑



present in the solution in the form of cation.

down the series
Red pot. ↑



for -D block — metal, it self deposit

Condition of electrolyte

Oxid. Pot. of metal $>$ oxid. pot. of anion

and

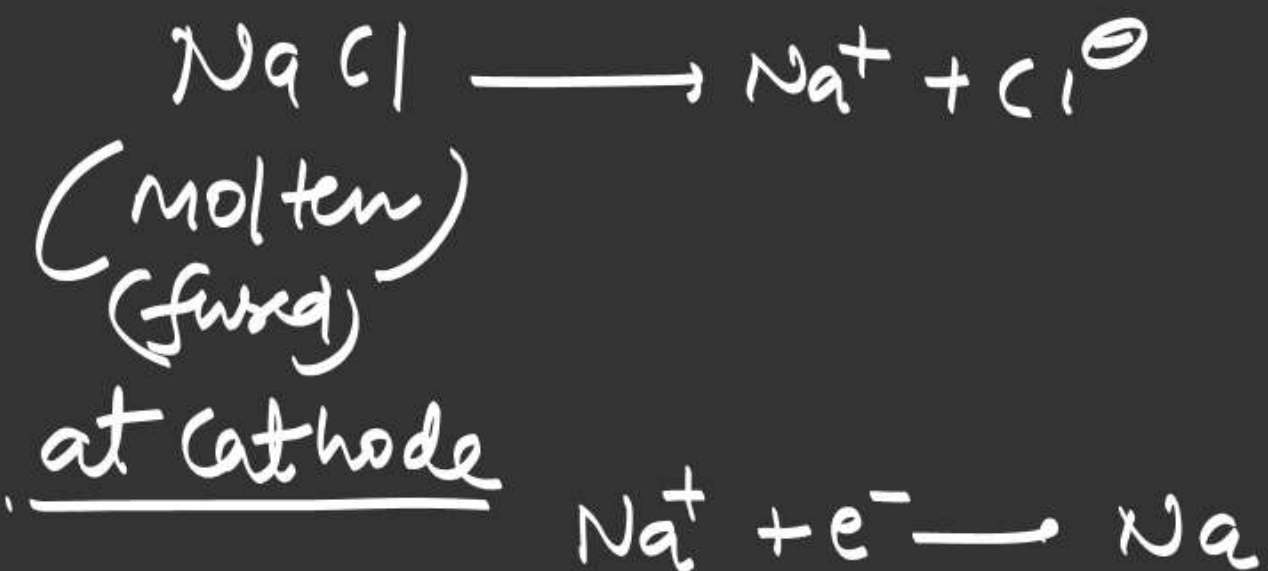
if $\text{oxid. pot. of } Z^- > \text{oxid. pot. of } X^-$
 $\text{oxid. pot. of } M > \text{oxid. pot. of } Y^-$

$\text{oxid. pot. of } M < \text{oxid. pot. of } X^-$
 then identify electrolysis for electrorefining
 of metal M

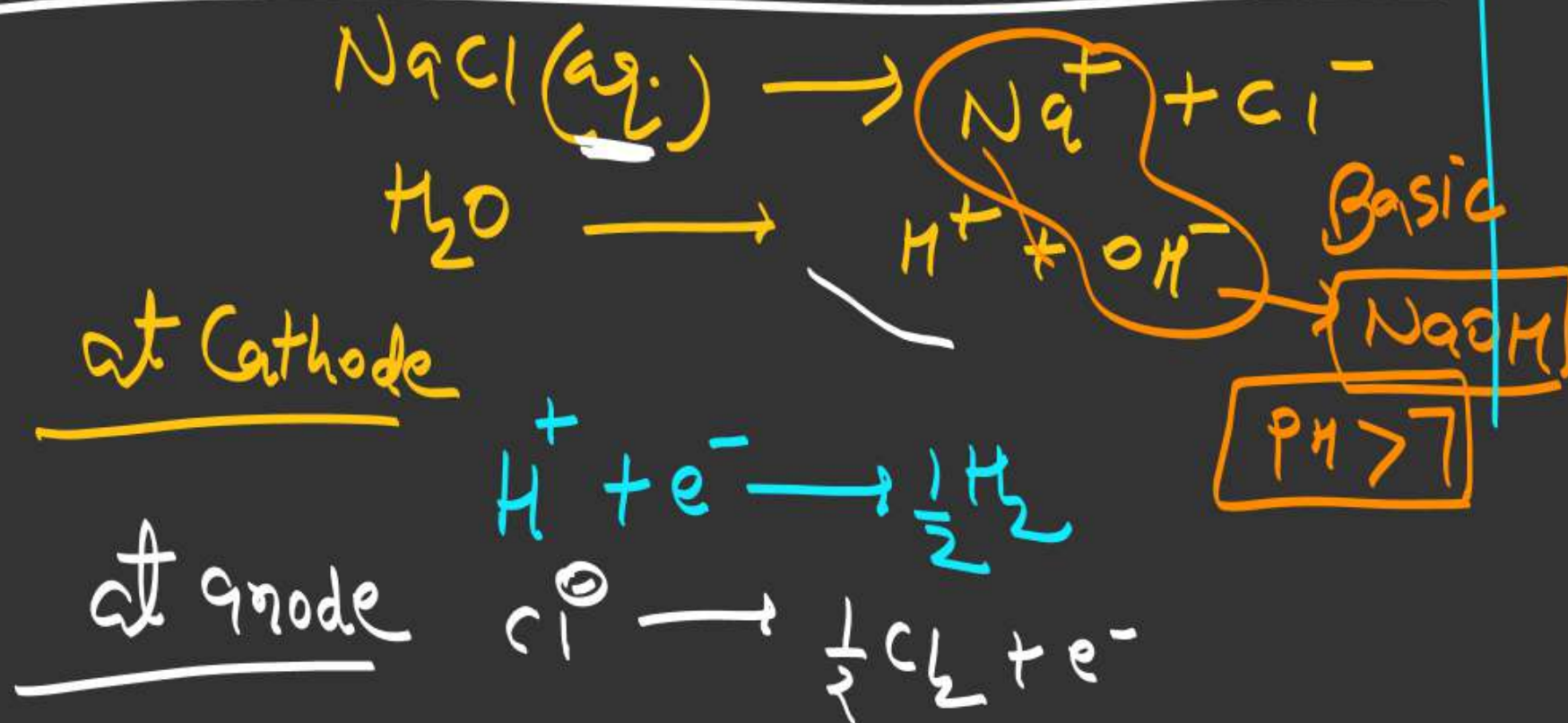
- ① MX ② MY ③ MZ ④ all of these ⑤ none

Anode mud of Cu contain impurities of

Au Ag Sb Te Se Pt
आयु आगे सब टीयर से पिटे



deposition order



H.W

DPP

→ one — learn from

② sheet up to DPP
Electro refining

Note \Rightarrow S-Block element can never be extracted by their aq. solution

Keypoint for aq. solution

at Cathode $\left\{ \begin{array}{l} \text{above } H_2 \rightarrow H_2 \\ \text{below } H_2 \rightarrow \text{Metal itself} \end{array} \right.$

at anode $\left\{ \begin{array}{l} \text{Polyatomic anion} \rightarrow O_2 \\ Cl^- / Br^- / I^- \rightarrow Cl_2 / Br_2 / I_2 \end{array} \right.$