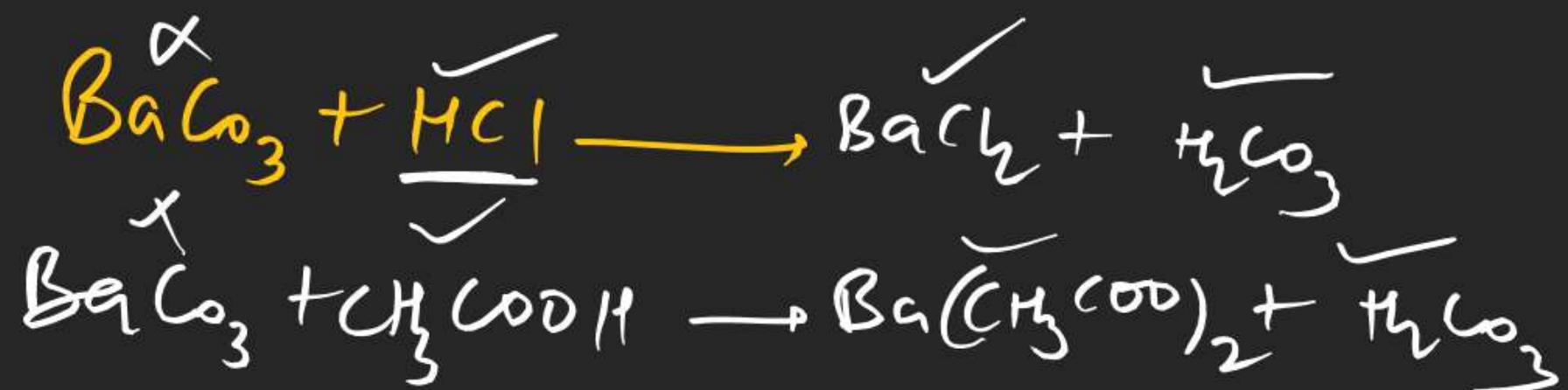
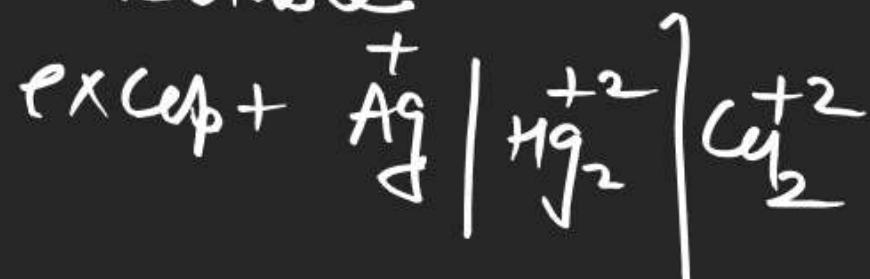


this reaction is possible when used acid is stronger than the acid from which salt is prepared and formed products are soluble.



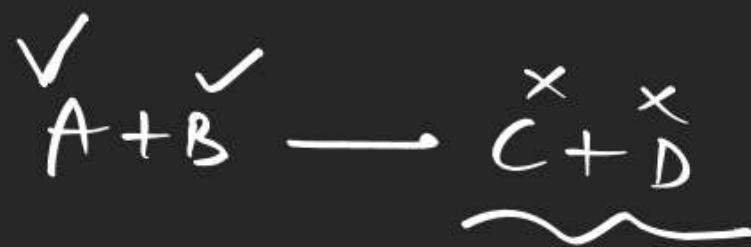
H_2CO_3	$K_a = 4.3 \times 10^{-7}$
CH_3COOH	$K_a = 1.79 \times 10^{-5}$
HCN	$K_a = 4.79 \times 10^{-10}$
H_3BO_3	$K_a = 5.8 \times 10^{-10}$

Solubility \Rightarrow all simple salts are soluble



White ppt

of $\text{BaCO}_3 \Rightarrow$ soluble in
dil HNO_3 , dil HCl
and CH_3COOH

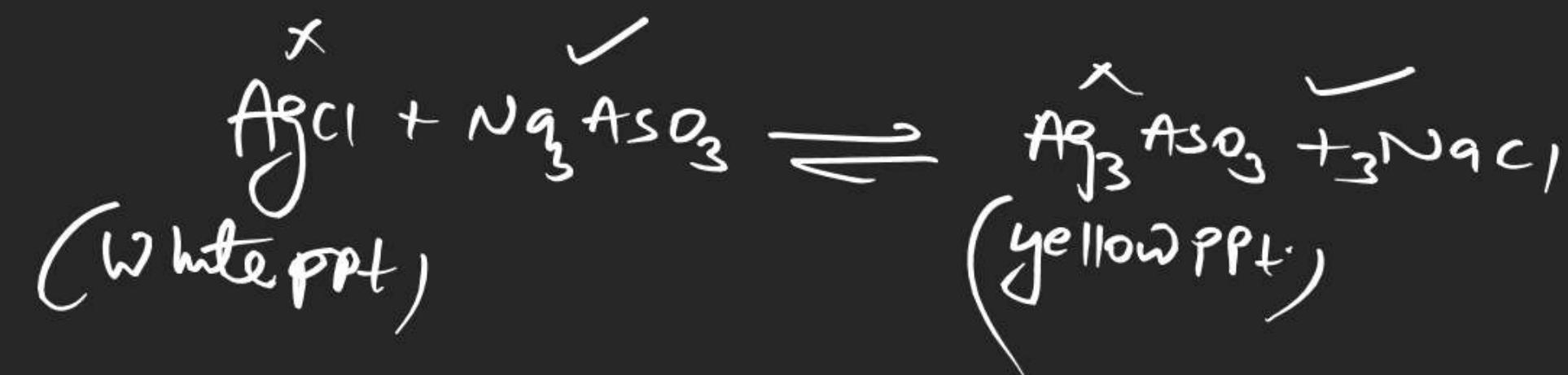
PPT

White lead

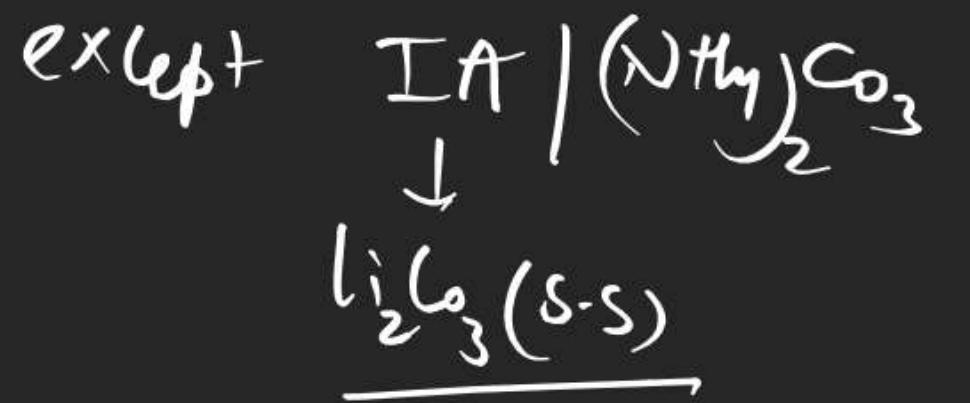
{ } \downarrow HS



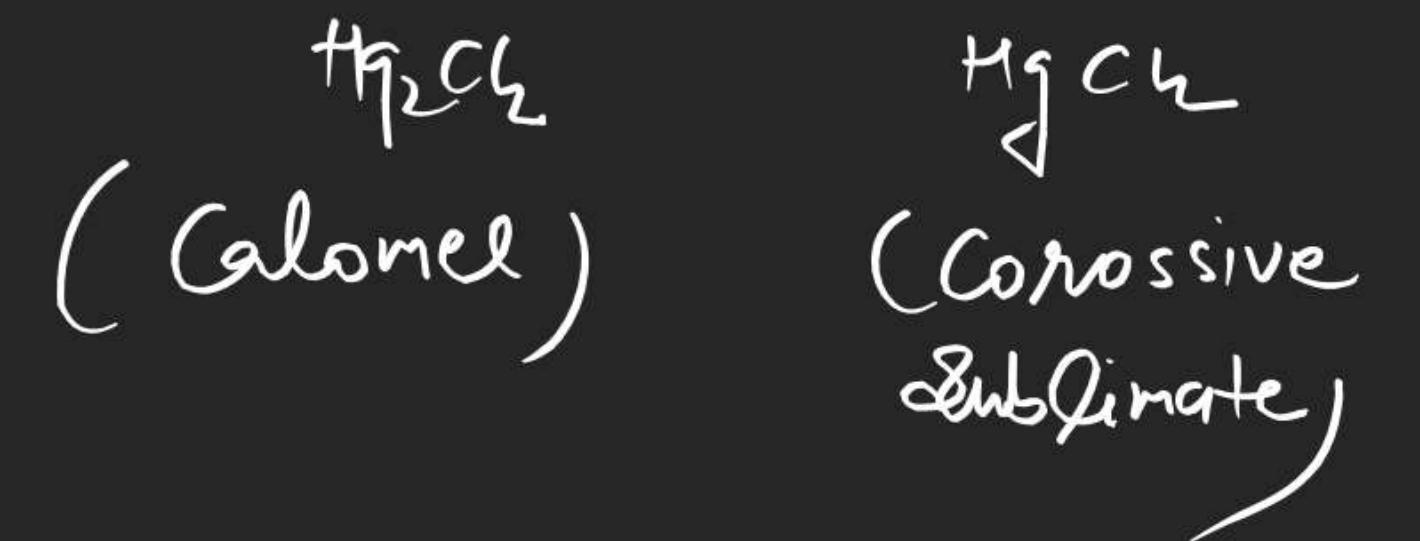
Lithophone
(White pigment)



Note \Rightarrow all Co_3^{2-} are insoluble

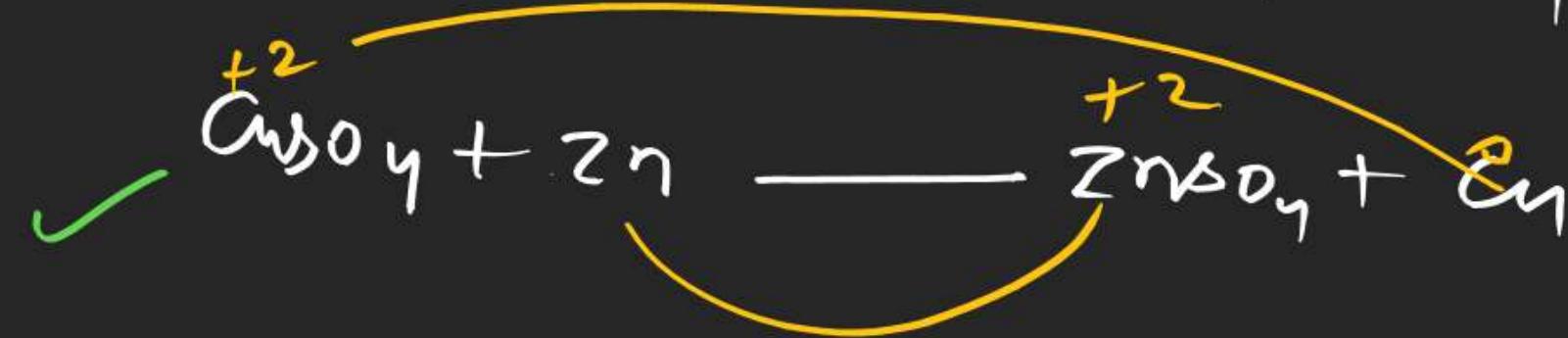
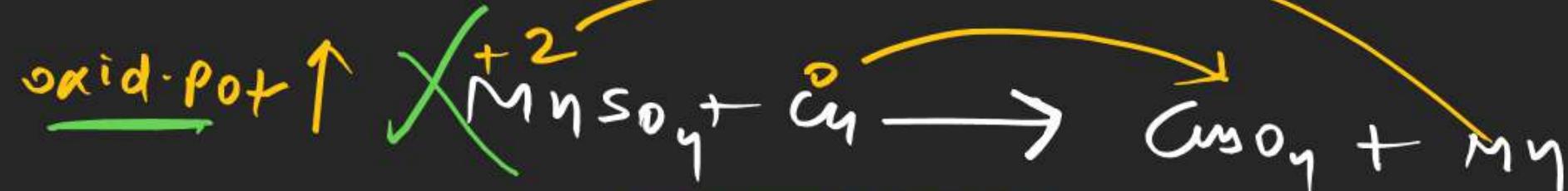


Hg → Salt & are pois.



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

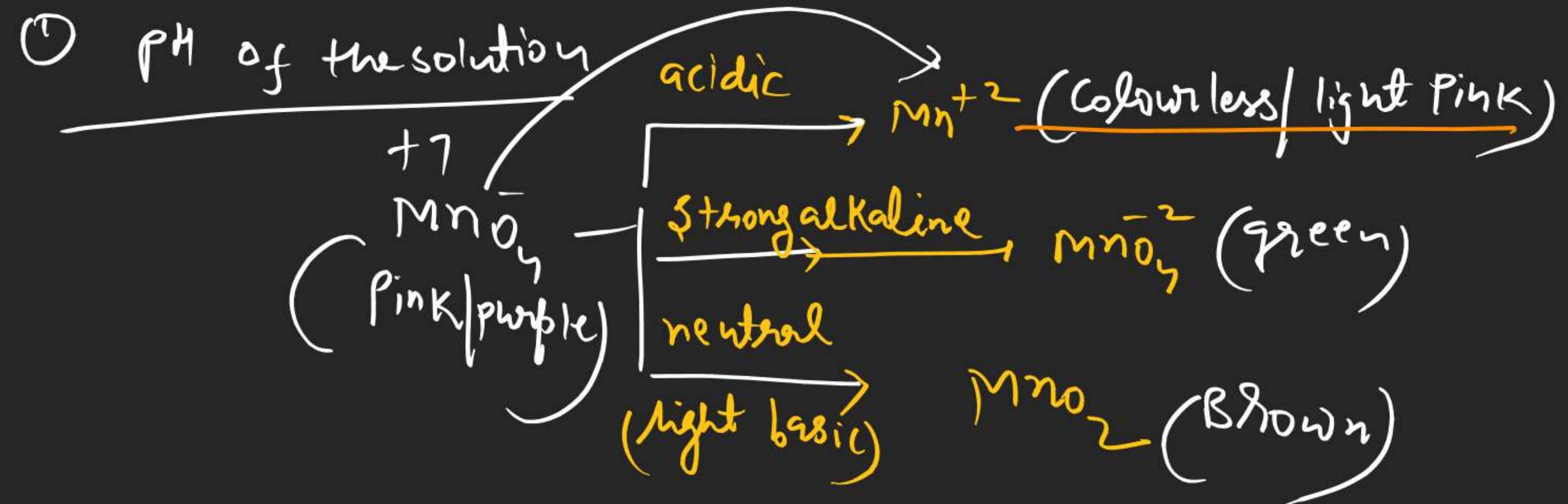
Redox



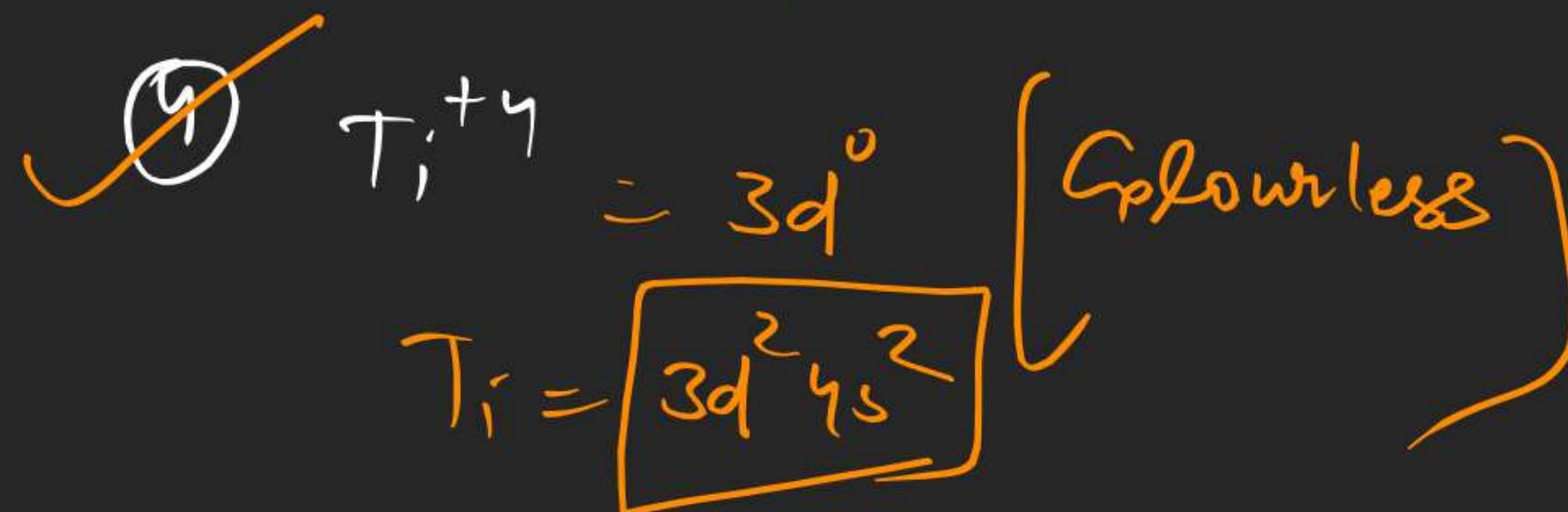
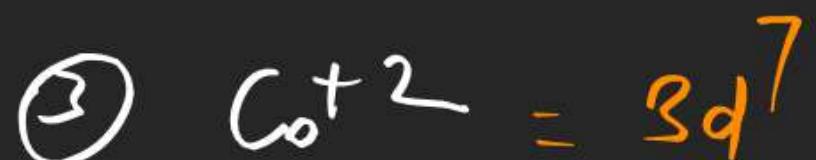
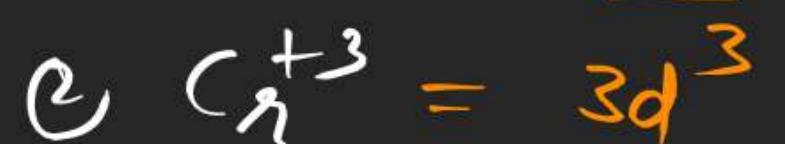
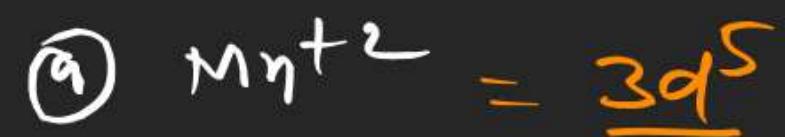
down the
 series Red. Pot. ↑

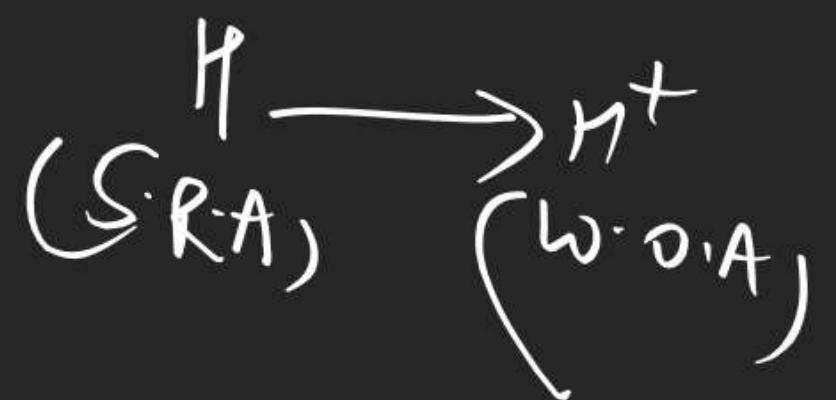
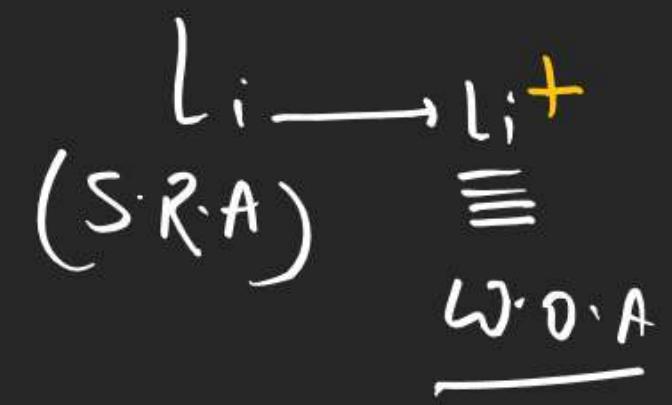
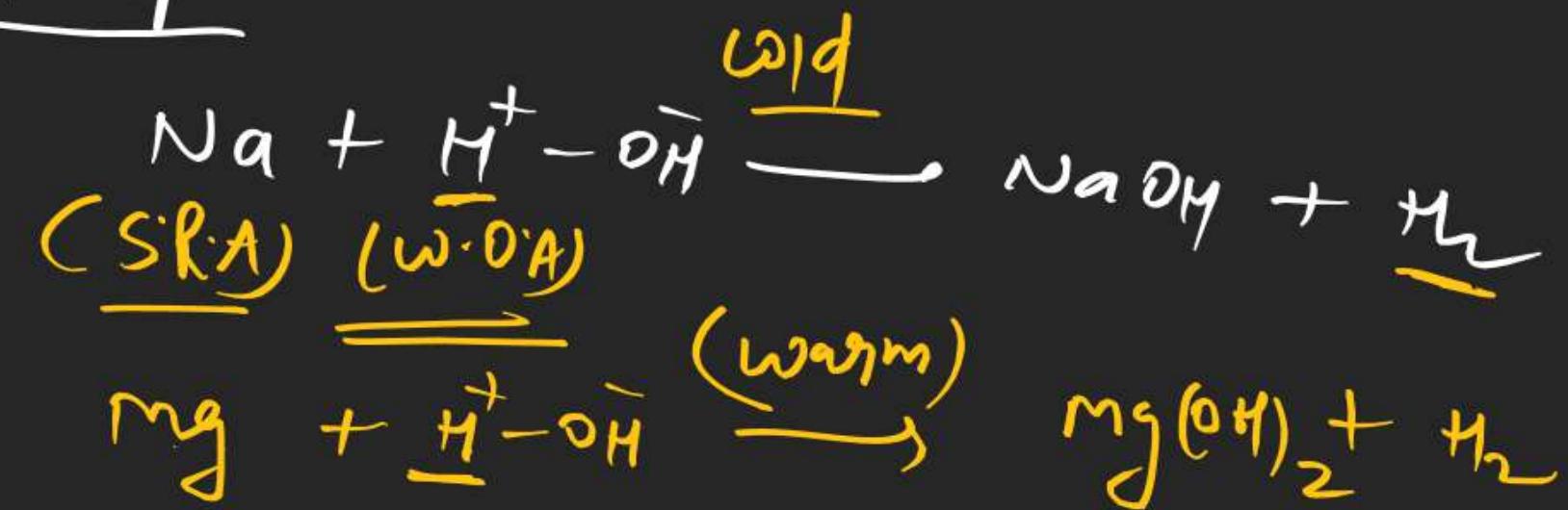
Redox reaction depends upon
 electrode potential which also
 depends upon following factors

- ① pH of the solution
- ② Temp.
- ③ Conc. of oxidising agent and reducing agent.
- ④ Pressure

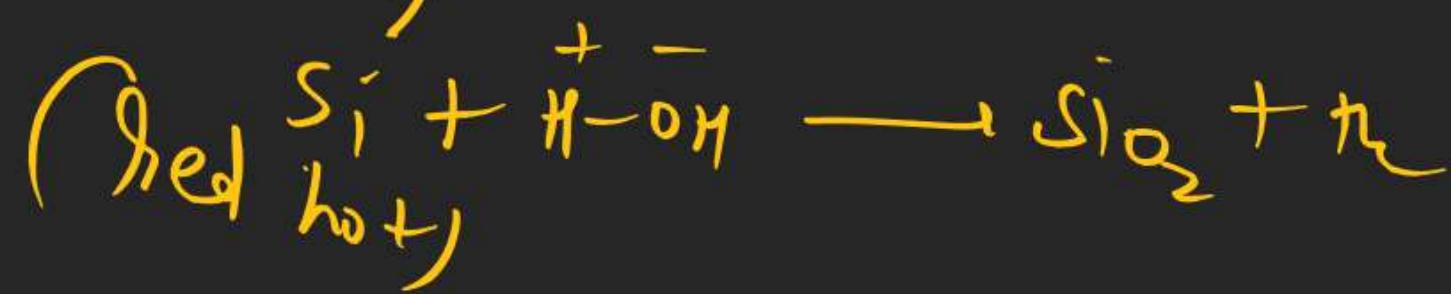
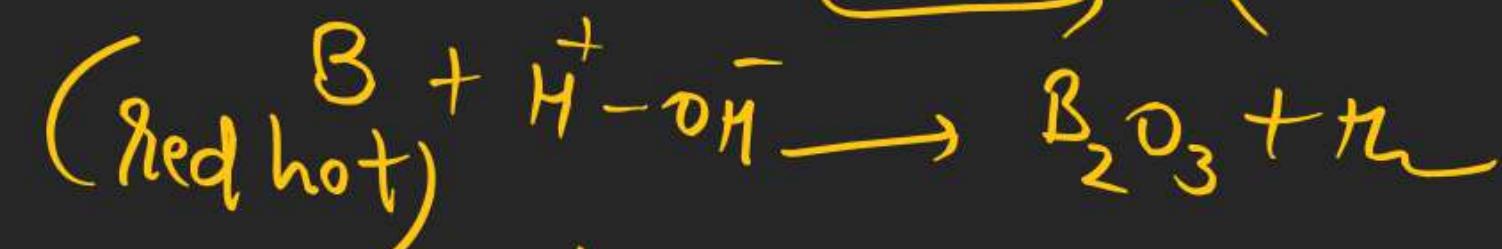
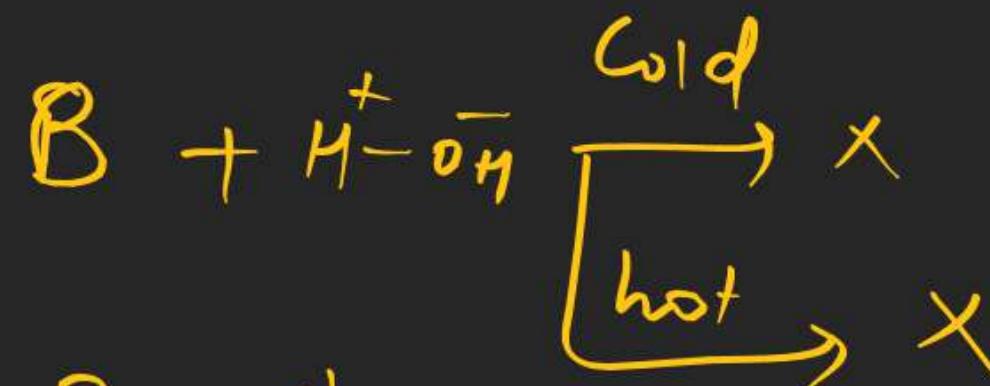
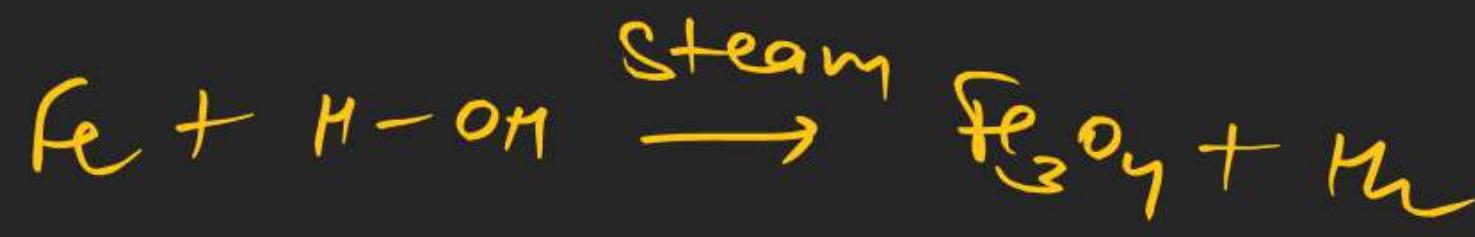


~~★~~ Which of the following cation is colourless



Temp:

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

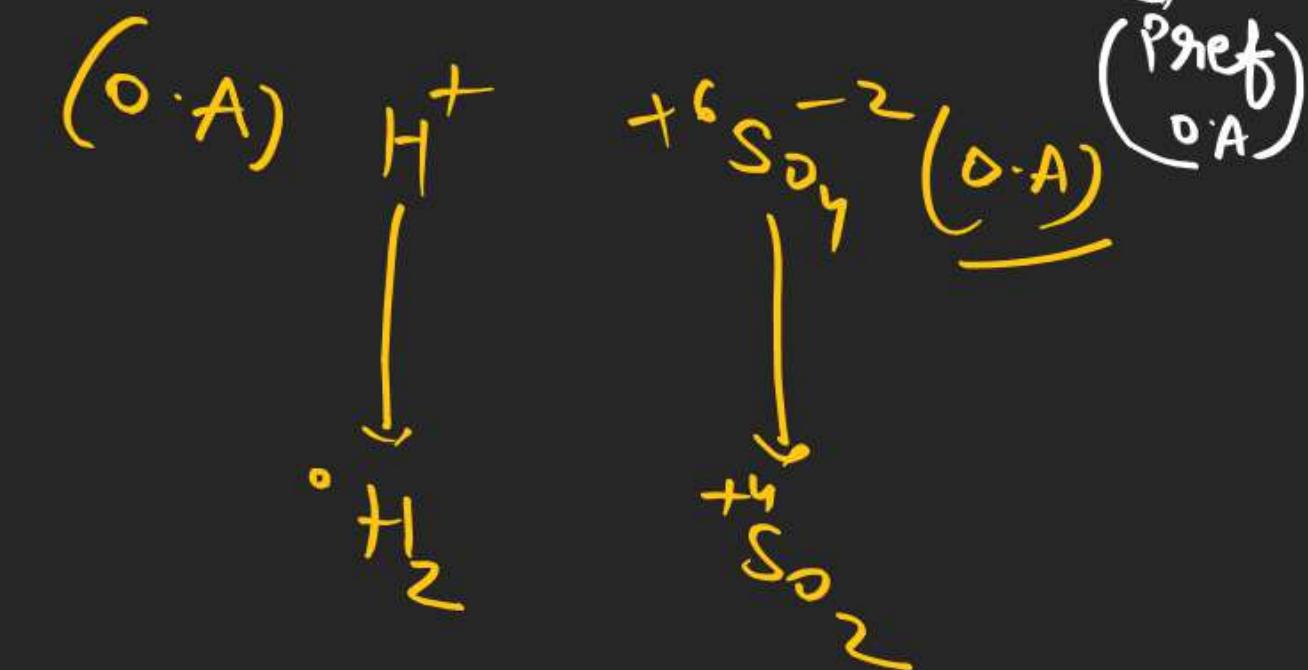


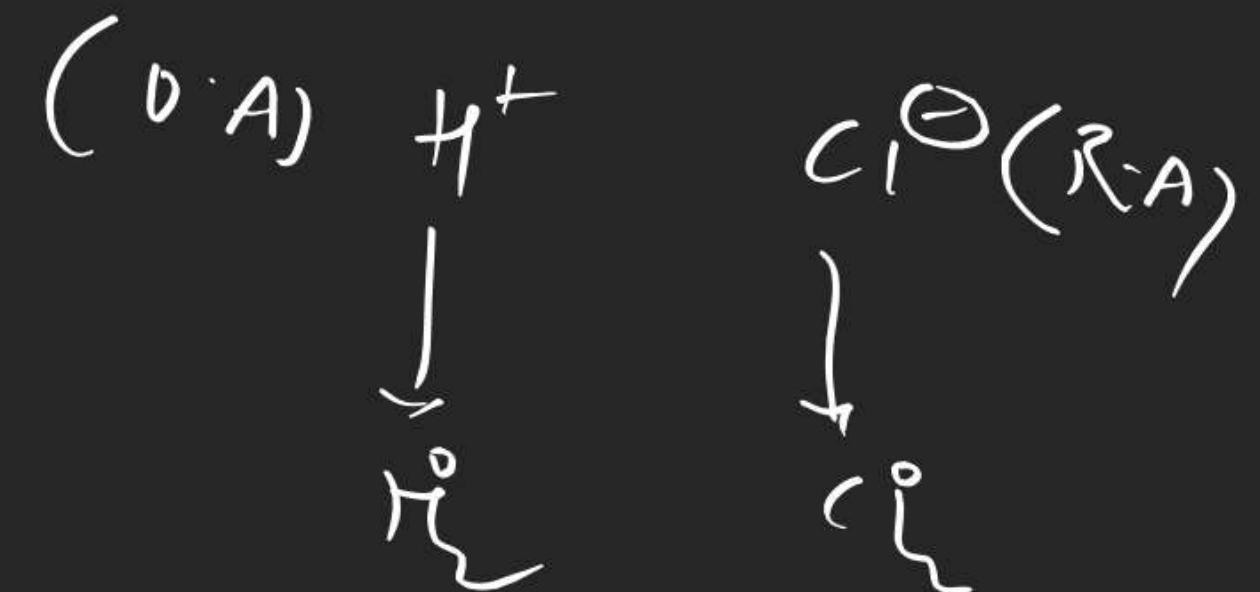
③ Conc. of oxidising agent and Reducing agent



$$x + 4(-2) = -2$$

$$\underline{x = +6}$$





Oxidising acid \Rightarrow acid in which anionic part act as oxidising agent

example \rightarrow Conc. H_2SO_4 , Conc. HNO_3 (70%)
dil HNO_3 , very dil HNO_3
(20%), (6%)

Non Oxidising acid \rightarrow acid in which anionic part does not act as oxidising agent.

dil HCl , Conc. HCl , dil H_2SO_4 , Conc. H_3PO_4

Li

K

(g)

Na

Mg

Al

Mn

Zn

Cr

Fe

Cd

Co

Ni

Sn

Pb

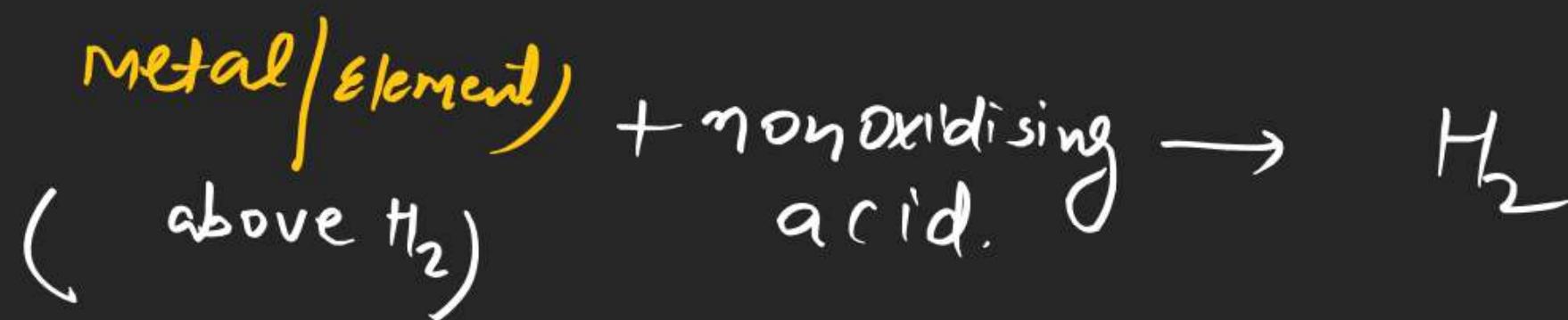

 H₂

Cu

Mg

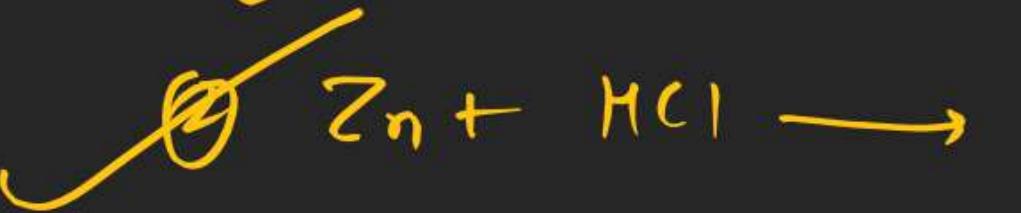
Ag

Au





Q. Which of the following reaction is possible



④ all are possible

⑤ all are not possible