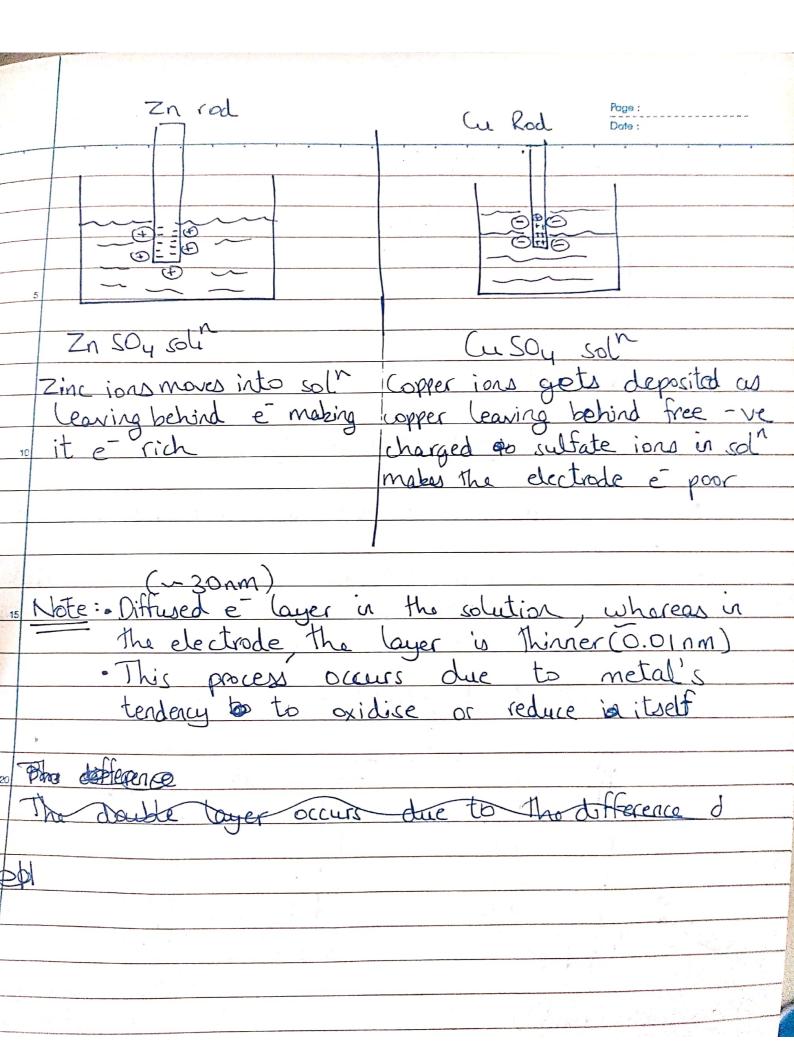
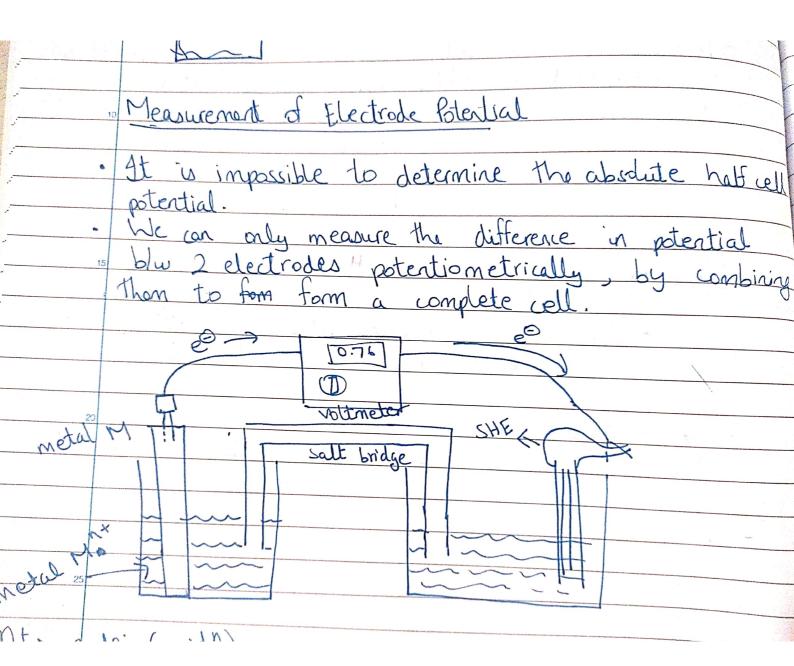
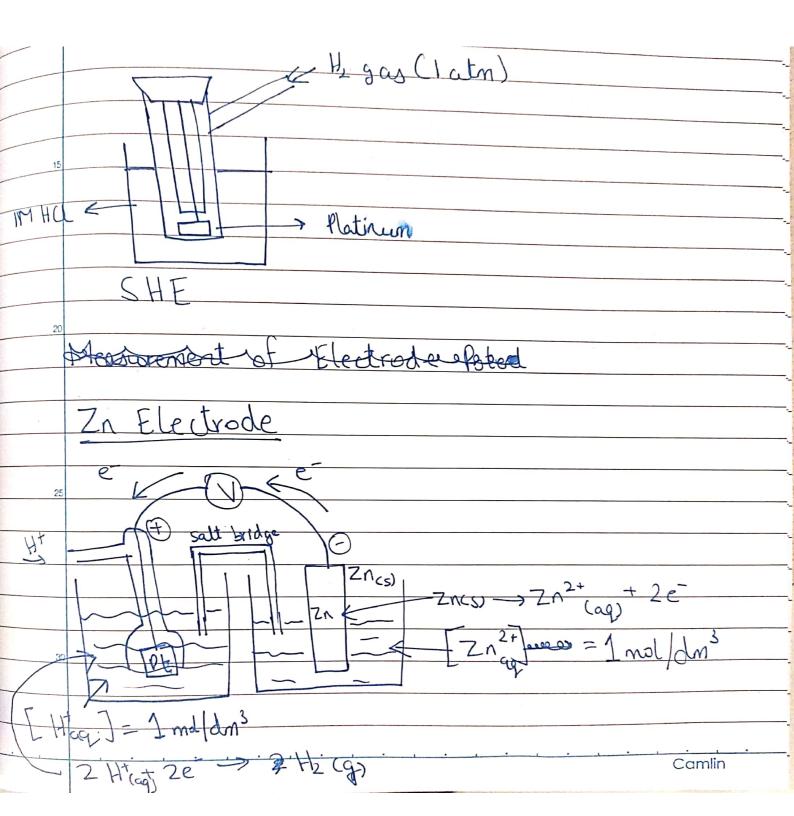
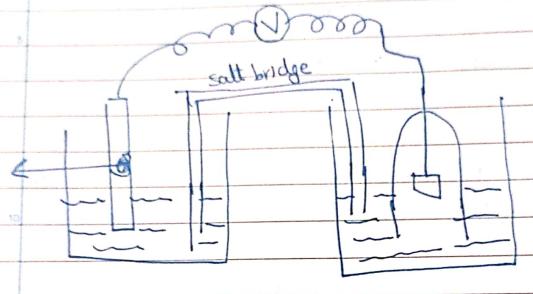
How from the electrice Ecell - Grathate - Earste · Standard EMP Single Electrode Potential A single electrode or half cell develops a definite electrode potential due to the spontaneous oxid" and or red" half ree rxn occuring at it. - Origin of SEP Consider Zn/ZnSOy, Anodic Process: $Zn^{2+}(s) \rightarrow Zn^{2+}(aq)$ Cathodic Process: $Zn^{2+}(aq) \rightarrow Zn^{2+}(s)$ - At equilibrium: Zn2+ (s) = Zn2+ (as @ ace e's are getting deposited on the rod as # Zn2" are leaving the rod) Metal has not negative charge and solution has equal positive charge leading to the formation of an Helmhotz electrical Double Layer. Camlin







Cu Electrode
Adodhode & Oxid ?):



At Anode (Oxidn)

H_(eg(g) -> 2H+(ag) + 2e

At Cathode (Redn)

(u'(ag) + 2e -> (u(s)

Overall Rxn

F2(g) + Cu +2 (ag) -> 2H' (ag) + Cu (s)

Sign of Electrode Potential

of reduction occurs than EP is given 20 a see sign.

eg. Copper Electrode + SHE

(Cu2++ 2e-> (u(s) reduction at copper electrode (Cathode)

H, -> 2H++ 2e- oxid" at hydrogen electrode

E°=+0.34 Volt

When an electrode is coupled with a SHE, if oxid occurs and then EP is given a sego - ve sign.

eg. Zinc electrode + SHE $2n(s) \longrightarrow 2n^{2t}(aq) + 2e^{-t}(oxidation)$ $2H^{t}(aq) + 2e^{-t} \longrightarrow H_{2}(q) \text{ (red}^{n})$

E°=-0.76 V

		Page :
Hard Street, Street,	Whenico	Date:
A Same State of	SALT BRIDGIE	
and the second	The law of	
	The liquid junction potential can (to about 1-2 my) are initial th	be reduced
Andrew St.	(to about 1-2 mV) by joining the compartments through a salt bridge	electrolyte
	And the state of t	
	LIQUIB JUNCTION POTENTIAL	
•	Diff. blu The electric Potentials de 2 solutions across Their interface	eveloped in the
	Ej = Poologe - Poologe	
	eg. Contact blu 2 different ed electro	Lytes (Znsa) (usa
33	EI.j.p. = [(t-)-(t+)]RT ln(a)	
Marin Marin		
	t = transference Number	
	c = activity	
or many or a second		
	ote: Why is KU chosen?	
The state of the state of	ote: Why is KCl Chosen?" - It is because mobility of	K+ and U-
Per property and a second	is almost same.	
Andrew State		