COMOUCTOMETRY

It is the measurement of conductivity of a solutions of anions domosed sespective electrocles

Conductivity (c) is Inversely propositional to resistance (K) of a solution.



the unit of conductivity is mhos

Accordingly.

where & = Potential difference

I = current which flows through

the unit of Resistance (R) & ohms, Potential difference (E) is wolfs to that of cussent-(I) is amperes.

The sexistance (R) of a solution idepends upon the length(i) t cross section (a) of the conductor through which conductivity takes place.

 $p = \frac{p}{a}$

cupere P = specific resistance

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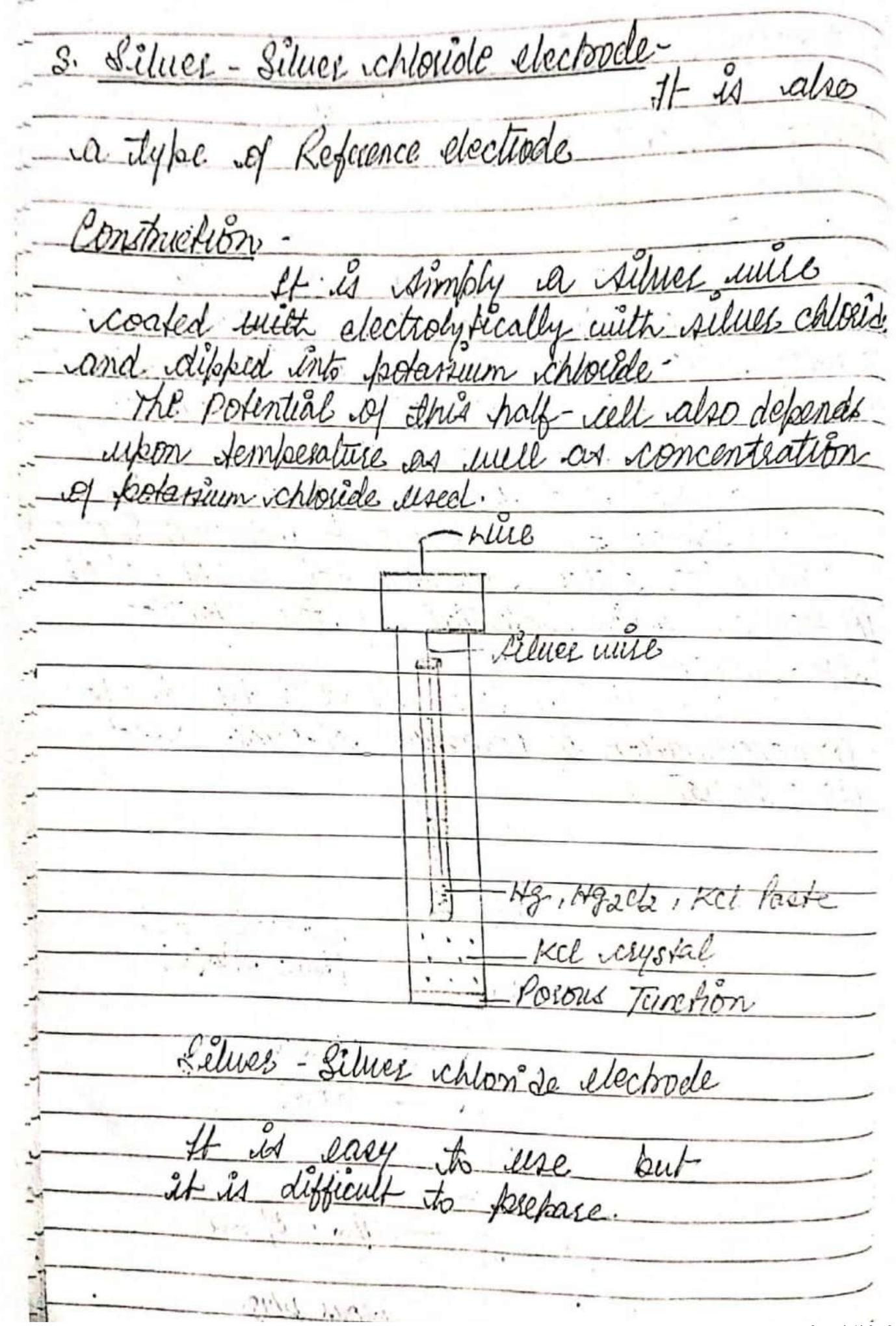
Page : Date : Measurement of Conductivity Unknown (R2.) -Cordinary Celli Standard Resistance (RI) SIB

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POTENTIONETRY

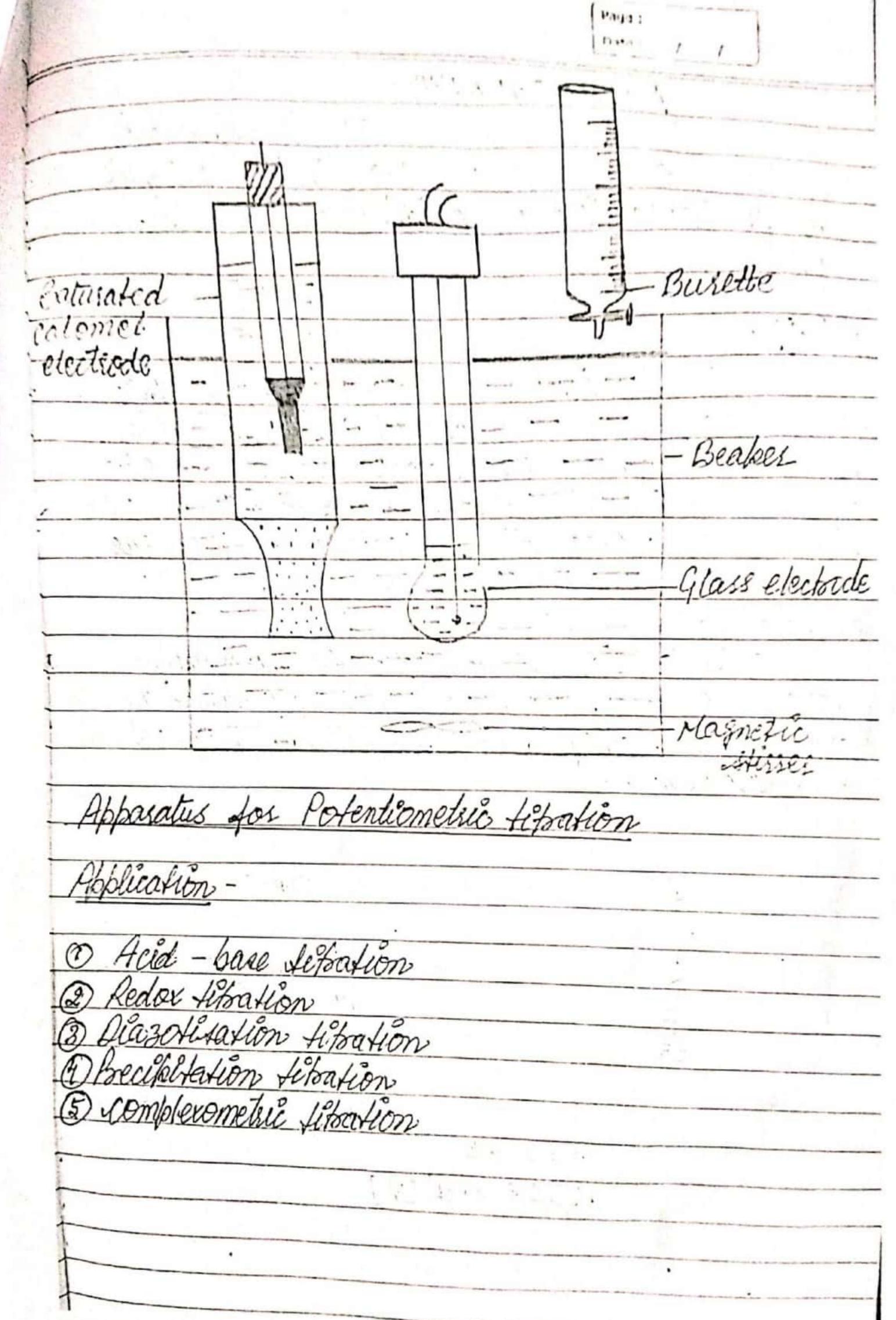
or emple (electromotive force) of a solution using a set of indicator and reference electrole the nature of concentration of the ions of the dies substance. The potential is measured in m using a resentitmeter, which has an indicator éléctione & séférence électrode. Indicater électrode responds to change in ez- glass electrade Référence électicale is the one which has a Handord potential on its own & its potential does not change to which ever solution it is dipped into eg- Standard Hydrogen electrode NEPINST GOUATSON immersed into a solution of its own ions is Standard Potential of metal - dalency of ions

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Antimony-Antimony onide electrode whose petential of pH has to be determined. Antimony exide (Sb203) is formed on experience Scact - Sb + H20 -> Sb0+ + 2H++30 to all. It can be used from PH 3 to PHB It was be used even with viscous flui Otentiometric Titration in which the end point of titoa determined by measuring the postential



POLAROGRAPHY for the qualitative or auantitative analysis of electroreducible of oxidisable elements gloups Asadually increasing regative appliced between a polarisa From the cussent - nottage bestormed. the instrument used is called Polarograp the current-Moltage curue seconded is called as Polarogram EDP-Decomposition potental. id-Déffusion Current 21- Residual Cussent-E1/2 EDP applied emf (+)

Different Types of Cussent in Polarography

Residual Cusient (ir) - It is the sum of the suser charging relative larger charging cusient and in may small Faradic cussent. Digiation aussent (im). It is due to migration of cation isom the bulk ef the follytion towards cathode due to diffusive force this depend on the proportion of analyte -of interest and the supporting electrolyte deminate the migration current, a large proposition of supporting electrolyte eg- 50-100 dimes the Refusion Cuisent Cid concentration Limiting Cussent seyond a cestaen cussent seaches a steam make called as the limiting current. At this boint Is equal to the sate of the state of electrode is sai -centration polarized.

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