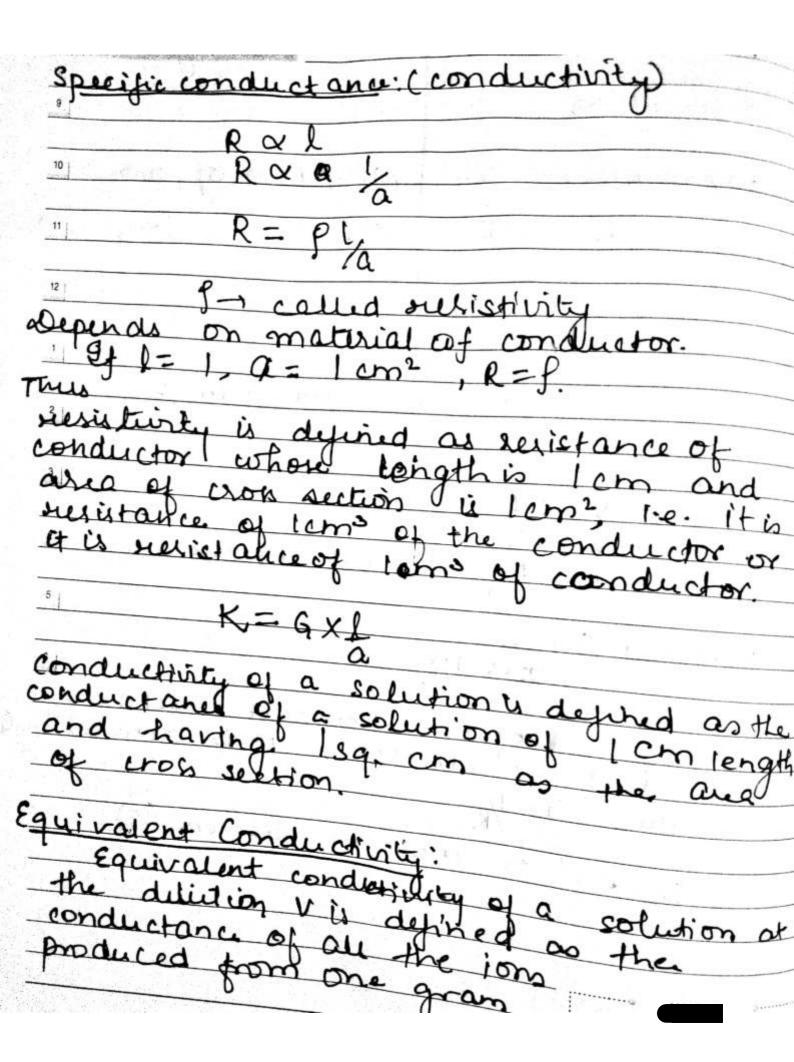
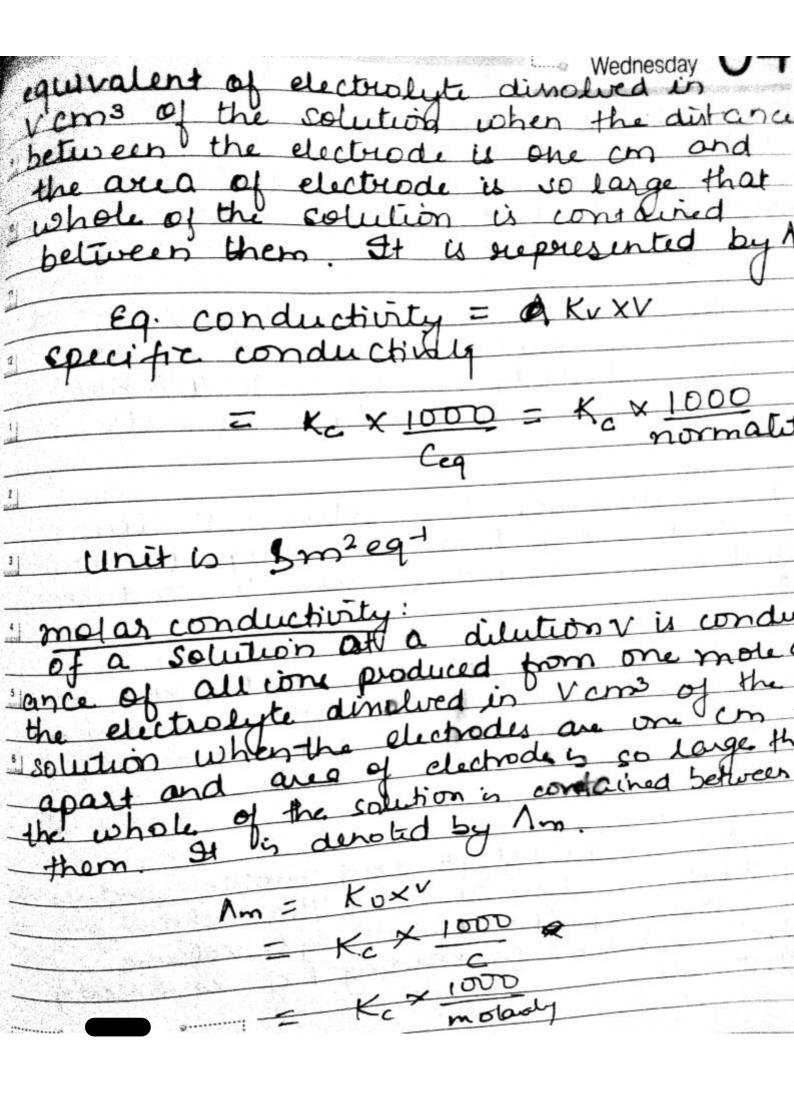
conductance of electrolytic solution: through them. do not allow aurent to flow them. thorough them. conductors are two types: flow with decomposition called electronic conductors eg. metals, graphite etc. due to flow ofer Those which undergo de composition when current is passed through them, eg. electrolytic conductors is electrolytic tonductors is electroly They conduct due to flow of rom!

Thus called conic conductance. They are further classified into two 1) Strong electrolytes. HCl, HNO2 - racid KOH, Naon - 1 Lars. (2) weak electrolytes - HCN, H2103, H3PO4 NHYOH, CO(OH)2, Al Con)3 - Loses

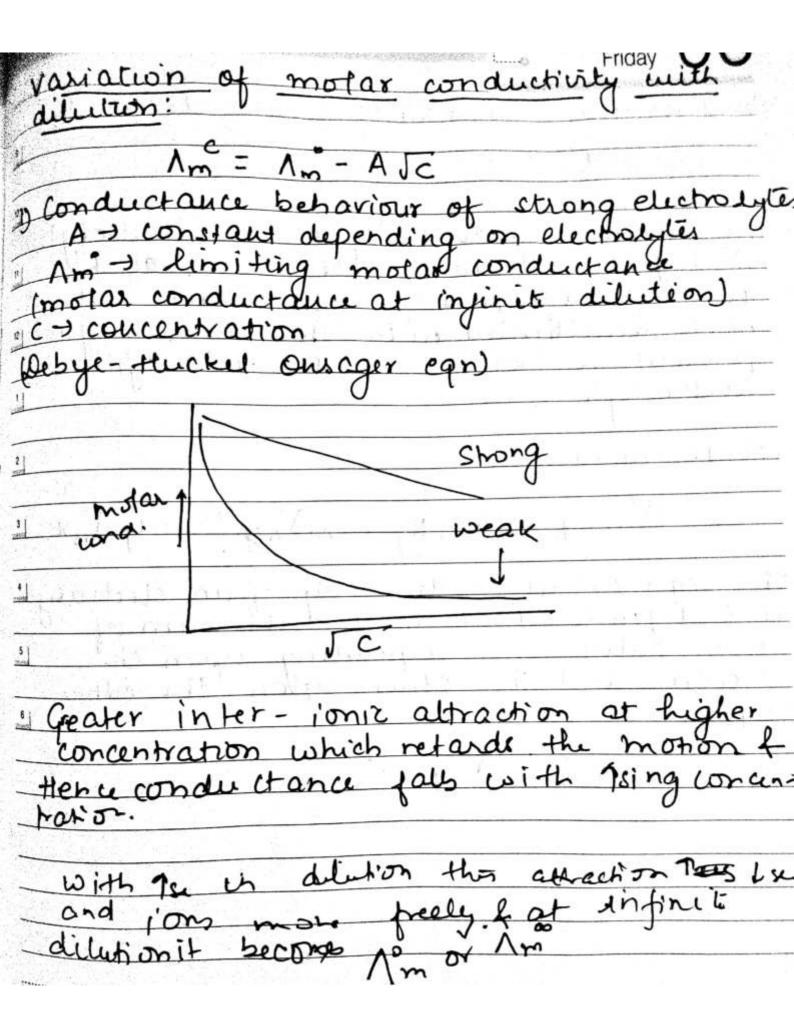
Substances like sugar, we do not conduct electricity called non electroly Factor affecting electrolytic conductor Materie of electrolyte - Strong J Weak J the size of ion and their solvation - Greater the solvation iof cons, less the conductance. it's Mahue of solvent & viscosity iv) concentration et solutéon + High wno. Temp. - I ren c Per actors affecting metallie conductane. Nature and ets smittine of De Number of valence e- per ators
of sunday 3) Temp. - Ise with the temp.

metclic	electrolytic UL
of definition	THE THE PERSON OF THE PERSON O
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flow of e-	2 From of 10m.
2 lices with 7seT	3 Tse C Temp.
3	
	A CONTRACTOR OF THE PARTY OF TH
Electrical resistance	and conductance:
1	
Ohm's law:	1 A Land Land Address
VQI	
V= IR	w w
R= TV	-) called desistance
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Jenoted by Ja 11	
	R
	a alashicale henistrance
The great of the	ne electricale resistance uctance. It is denoted by
is called the cond	udanie. It is deliver s
Thus G= 1/R	
0.7	pho or comen (c)
Unit is Strok n	nho or siemen (s)
The west has believe	and the second second second
	5 L. M





Its units 5 m2 mel-Variation of conductance, specific conductant equivalent conductivity and melas conductivity vely with delution. for weak as well as strong electrolyte conductance, equivalent conductivity and motor conductivity increases with dilution whereas epecycic conductivity Ises with delution The conductance of a solution is due Pung delution to the opions. Thus on number of con increase hence I conductance Specific conductivity uses with delution because the number of current-carrying cube of the solution becomes un on becomes un on The 1se of equivalent and molar conductivi is due to fact that there ore product of specific conductivity & volume of the solution containing ig equivalenty Electrolyte



O / Saturday	1.00
Conductance behaviour of a	reak electrolyte
Kohlrousch law	
10 dustinty 6	y an electrolyte
The molar conductivity of at infinite dilution is the	e sum of the
ionic conductablishes of to present in one formulated with	he number of ion
present in one formul	a unit of the
Mathemically.	7/-
The equipolant conduction	Jagg + y dox
The equivalent conductivit at indefinite dilution is fivo value one depends cation and the other i	y of an electroli
Etwo value one depende	ing upon the
cution and the other u	ydon the other
Neg = da+ da	

application of Kohlraush's law!
D'Calculation of molar conductivity of weak electrolytes at injunite deliction.
Acc. to Arrhenius theoly of electrolytic dissociation, the Tri in motor conductivity of infinite dilution is due to the inview complete dissociation
Degree of distociation $x = \frac{1}{m}$
3) Calculation of dissociation constant of weak electrolyte.
$K_c = \frac{C\alpha^2}{C\alpha^2}$
5
and Chicor No ct infinite delution are 126. 4, 426.1, 91.0 2 1 cm² mol-1 what will that be of acetic acid.

✓ Due to some technical issues the notes are sent via scanned means today

Hope you will manage Today. Thanks and regards. Ankita Ojha