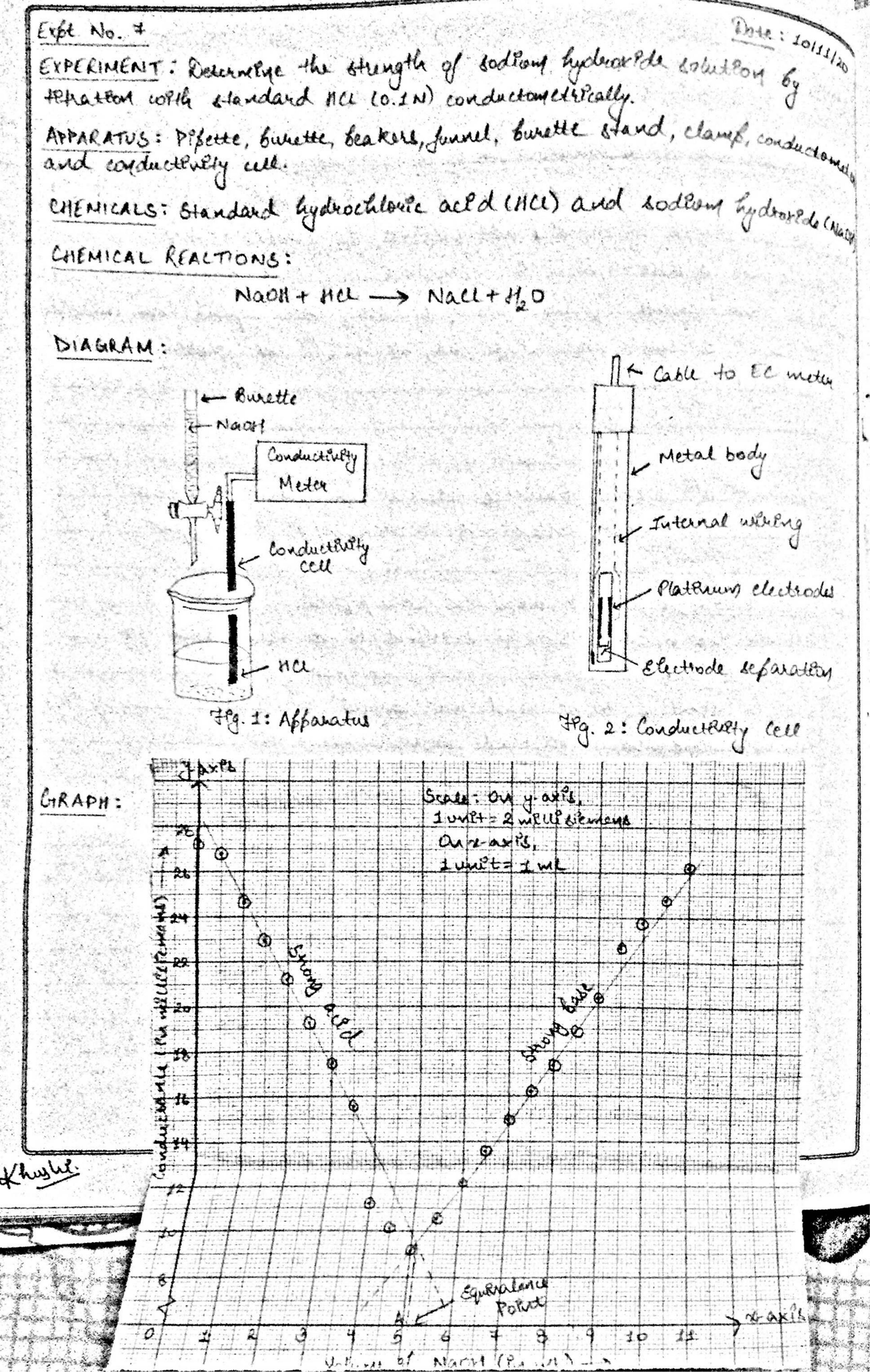
EXPERIMENT: Determene the strength of sodium hydroxide solution by Hetration with standard hydrochlorec aced (0.1N) conductometrically.
1 tetration with standard hydrochlorec aced 10.1N)
Toy ductome telcally.
THEORY: There is a decrese in Ht Pon concentration woon addition
of Nach solutean to the HCL solutery, resulting by decrease
En conductevely of the solution.
During Attration, conductively of solution first decreases up to
equevalence point, then increases due to Encrease in hydroxylion
concentration Inchally, with the addition of the alkale to the
and there well be a decrease in conductance. After the
mutalization es complete, further addition of alkali would result
En Enverse of conductance, sence the addr Honal OH Eous from
the NADH are no longer used up En the chemical reaction.
So, If we plot conducterity veries volume of Athant / NaoH, we
get V-shaped curve. From the #Etrateon eurose an equerale ace Bolis
car le obtained
PROCEDURE: 2. Take 50ml of MCL solutton in a clean beaker and
Enverse 1 de the conducterity we in of take sure that the two
flaterum electrodes of the cell are completely diffed for the solution.
2. Councit the well to the bridge. Note down the conductivity.
3 Add Naon from the burette at an Enternal of 0.5 mc each time,
ster the contents and note down the conductantly every tence. The
conductivity will first decrease and they murease.
19. Plot the conductance against the volume of NaOH added. The
equivalence fort can be determined from the Portor-section of too
Teacher's Signature:



pt. No.		Page No. 16
leus out	he graph and hence	the strength of NaOH solution co
10 kulated	The procedure can	also be applied to fred the s
of wexten	us of two acids or	bases and also que the press
Herateon		
RESULT:	The strength of sode	em hydrox9de fresent & the gov
sample	21 39.2 gw/L.	V
PRECAUM	ONS: 1. The platerum e	electrode should be correctly place
Re the	Leabor and should	I be und as 1 Busin
	major and south	not be used as a starrer.
2. The d	rops of NaOH should	fall denectly Puto the beaker of
2. The d	rops of NaOH should not by the	fall denectly Puto the beaker of walls of beaker or electrode
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Teacher's Signature:

SA.	of o.in stel taken by the beaker = Volume of NaOH added from the Buretle (Br ml)	Conductaire 184 meur 198
4	0	2 * 1
2	0. 6	26.8
3.	1.0	24.6
4	1.5	22.9
5.	2.0	21.1
6.	2.5	19.3
4 .	3.0	14.5
8.	3.5	15.6
4.	4.0	11.2
io	4.5	10.1
11.	50	9.1
12.	5.5	4.0 %
13.	6.0	12.2
14.	6.5	13.6
16-	4.0	16.0
16-	1.5	16.2
17-	8-0	14.4
18.	8.5	18.9
14.	9.0	20.4
20	9.5	22.7
21	10.0	23.8
22.	10.5	24.8
23.	110	26.2

CALCULATIONS:

Applying Normality Equation

NNAON = NAQ × (50/A) = 0.1 × (50/5.1)

= 0.98 N

Strength of NaoH (gm/L) = 0.98 x 40 = 39.2 gm/L

Khushe.