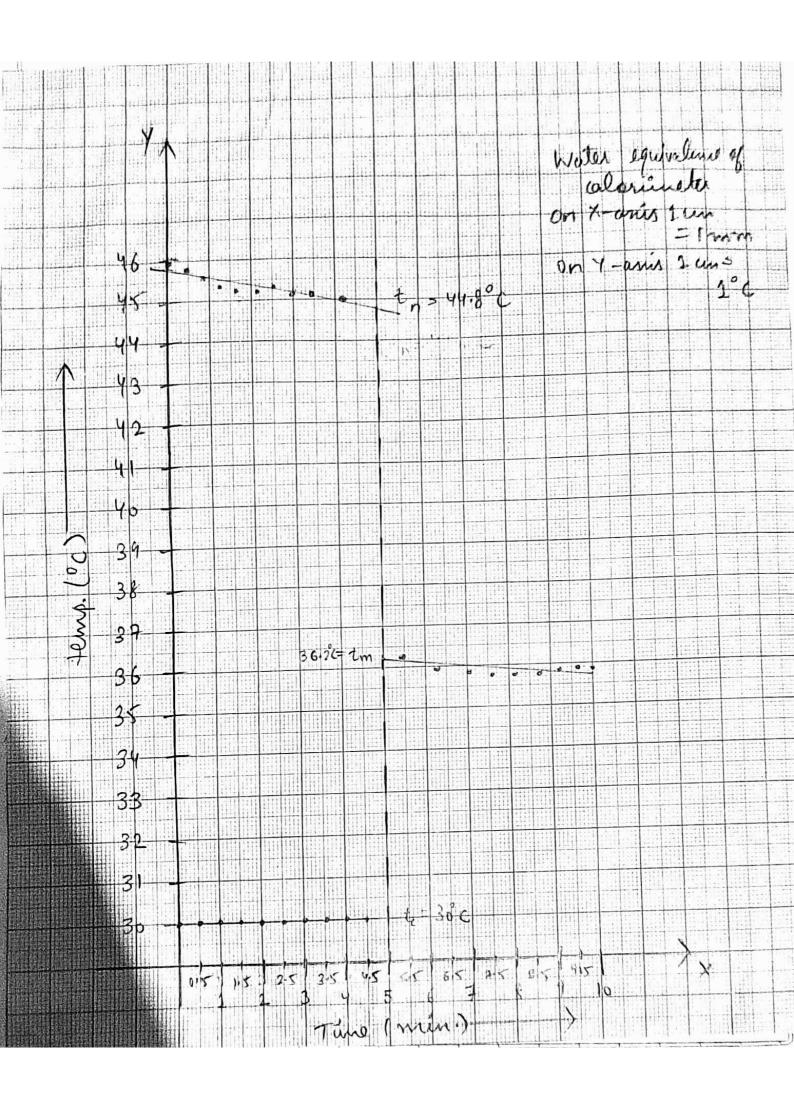
Observation Table:

S-No	Time	me Temperature (°C)		
2.40	(min)	for (or normours)		tom (or mixture)
				()
1	0	46	30	
2	0.5	45.8	30	
ತ	7.0	45.6	30	
4	7.2	45.4	30	
2	2.0	45.3	30	
E	25	452	30	
7-	3.0	45.2	30	
8	3.5	45.4	30	
9	4-0	45.1	30	Ī.
70	4.5	45	30	2
22	50	- Mixim	ō>	-
12_	2.2			26.5
33	€-0	580		356
16	6.5			35.9
:5	3.0			35.9
70	3.5			35.9
13	8.0			P.25
18	E.5			25.9
13	3.0			35.9
20	3.5		y,	55.9
37	20.0			35.9

Expt. No4	Page No.
Jo determine the entho	up bue roluinstrically.
Sparatus: Thermo flask, glass striker watch, wake, measurie	
Sheory:  Nalosimeter: It is an opposite the softening the softening the softening which isolated system which heat mer matter with an laboratory, we calcrimetes:	can reitere exchange
	is to actermine the viewells of water equivalent
(b) To determine the entrol  strong soid (INHU) and  using heat espacity me	Ley of neutralization of  Lestrong besse (IN NOOH)  ecoused in part (a).
Heat walved in any p	



	Date
Expt. No.	Page No.
Ideal lost = Iteal qui	red.
- Alates equivalent of calcination of such sequivalent of such sequivalent of calcination of such sequivalent of such sequivalent such sequivalent such sequivalent such sequivalent such sequivalent such sequivalent such such such such such such such such	te saise the thing of all with a second of sent
H+ + OH == H20 +	14ent (-52.77 Kcs.1enci) cr (-52.27 Kcs.1enci)
Procedure: 1. Fock 100ml of distilled	water is a besty wire
2. Fightle and heat it	to ~ 45°C
3. Soured the bot water in a shermometer howing leaded in the water	
4 recorded the temperature of well as sold mades for	
5. At exactly 5 min, power into the fort wester in	, .
	Teacher's Signature :

## Calculation for wall equivalent:

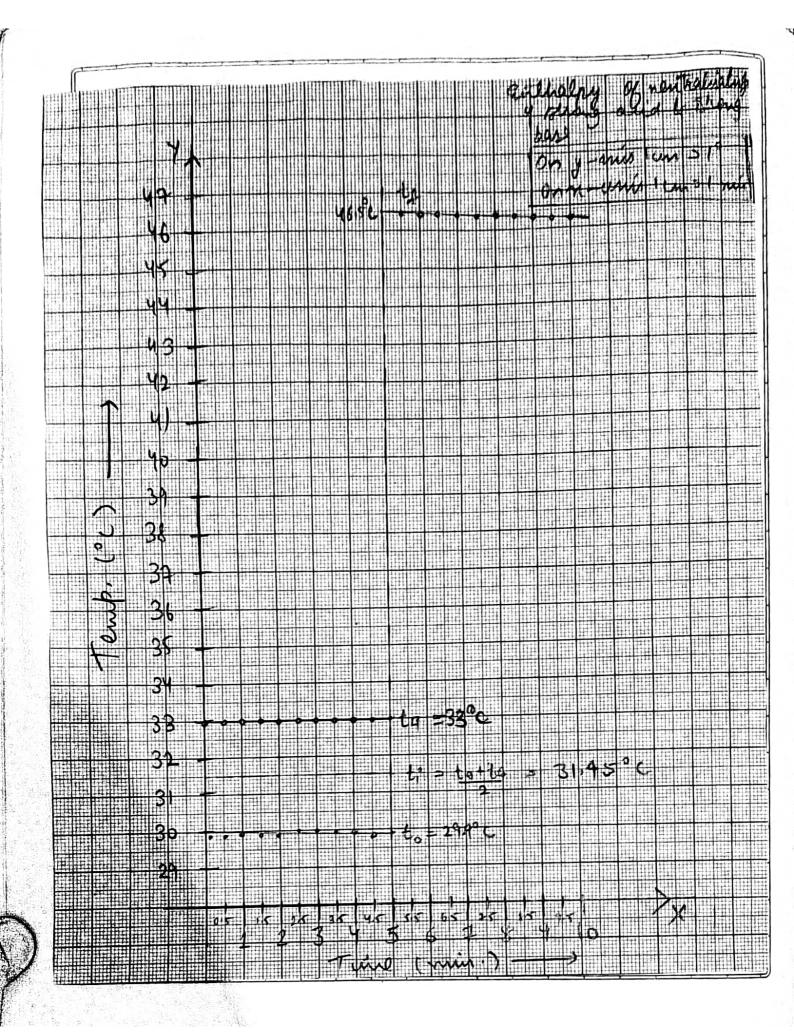
$$m_{h} s (t_{h}-t_{m}) = m_{c} s (t_{m}-t_{c}) + c (6.2)$$

$$= 100(8.6) = 100(6.2) + c (6.2)$$

	coffer wire stives and continue recording the temp of the mixture for another 5 min
	( ofen ruery 30 sec)
	Laterdation:
	Joed lost my the hat - Head gained by cell water + Head gained by call
	mus(th-tm) = mes(tm-tc) + c(tm-tc) 100 x1 x(th-tm) = 100 x1 (tm-tc) + c(tm-tc)
	100 (th = tm) = (c+100) (tm-tc)
4	c = 100(4n-1m) - 100
$\dashv$	tm-tc
	Q = 200 (+5-4;) + c (+5-4;)
<u>a</u> )	Latentation for mater requirement:
1	my s (th-tm) = mes(tm-tc) + c (tm-tc) 100x1 (44.8-36.2) = 100x1 (36.2-30) + c (36.2-30)
	· 100(8:0) = 100(0:2) + c(0:2)
4	80-620 = 6.3C
	<u>⇔</u> <u>c = 2400</u>
	= = +38.71 cm/°C
	Teacher's Signature :

Observation Table:

S-N•	(in min)	to (Mach)	sture ('c)	+m (mixtine)
1	0	29.9	33	
2	0.5	29.9	33	***
3	. 10	- 29.9 · "	1. 33 mi.	1747
4.	is	29.9	33 "://" .	
5	20	29.A	33	23
۲.	,∿5		33 ,, *	
7	5.0	, 30' ` : · ·	- 33	
3	Z•5 √		. 33''	
9	40	30	33	
10	4.5	29.9		•
22	5-0	← Inix	mo	
32	55		5 TOP	46-4
73	6.0			÷ 46.4
3L	6.5			: 464
15	9.5			46-4
16	3-5	4 4	2 041 8	46.4.
53 ·	2.0: -		•	• ,
75 .	. 6.2	***		. 46.4
<b>.</b> 9	9.0	20°	245 · 75	1 1. 46-4 ·
ಸಾ	9.5	-	- S - A 20 -	46.3
Ľ	40		- of	46.3<



Expt. No	Page No.
Entralpy:	
VH = 0	- 0
mxv	(in) 01
ΔH = 100 X G	2)
	592.58
3592	5.8_cal mol
Kesutt:	
the hed capacity s	calorimeter is +38.71 cal/c mentralization of strong base is =35.92 k cal/mal (exothernic)
and entrailsy of	neutralization of strong
acid and ducon	14001 14 =35.99 4 cal (ma)
	(exothernie)
Now or	
January 1202	
27/01	
<del></del>	
4 4 3 4 20 1	
	<del></del>
	Teacher's Signature :

Expt. No6	Page No.
din: To prepare 2,4,6-	eriturmo elerivative of prenel
Material Required:	
Preset = 1ml : 1	
Bromine = -:	*5
Wester = 50ml	
Theory:	
2,+,6- Hilsemopherse is	
of poerce will are ag	solution of browing
Reaction involved,	N
OH B	BI
382	+ 34182
	&n
Uethanism :	· · · · · · · · · · · · · · · · · · ·
The -OH grey is no	election _clenating, ortho-para
directing group stence	bucomodico takes place in
- Journ	GOH THE MECHANISM IS AT FOLLOW
(101)	THE MAN TO SERVE
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s
Θ.	
OH CON	By III G
· Br TBr & BITTER	+ B21-B21
Ex Ex	Bi H
£?	
	Teacher's Signature :
1	)

Saludation of 1. yield:

Starling compound = Phenol = 6,11,0: MW = 949

Product = 2, 4,6 dillions phend = CGH308ig: MW = 331g

92 9 4 phend gives 332 9 4 2,4,6-Milliamophend

: 10 4 prince give 331 ×1 = 3.58 of 2,4,6.

1. yield = chourd yield x 200 coloridad yield

showed yield = 1.2.9
calculated yield = 3.5

1. yilld = 3.5 x 206

= 40%

	Date
Expt. No.	Page No.
Proceclive :	
	of flask we taked Iml
of phenoi and ac	icua 50 may water offer
this we added chape	vise solution of transine
port in some of the ) in a fe	meach will continuous
stiving till we down	used a while ppl of
2,4,6 - tribramaphenal	in case if we get yellow
ppt which indicates es	ceess of brooning, added
- EUSHON to yours	lo the miseture to oriclise
excess of becomine - 1	opt walle become white
After acceling Nations].	Added ~ 50g of crushed
ice and ~ 20 ml of	told water. Filtered tre
ppt obtained and we	ushed thomoughly with
cold water so that	trece is no smell of
either presel or bearing	Dayed the ppe wier
the keep of fitter per	rer Recorded its 1. yield
and recryptulised	some of it is accord.
Dele St last determined	the metting point of
the recryptulated so	mple
Result:	
the 1. yield of 2,4,6	- tribremophenel = 40%
MP of 2,4,6- tribono	phenal =