Somaiya Vidyavihar University K. J. Somaiya College of Engineering, Vidyavihar, Mumbai 400077. Department of Science and Humanities Applied Chemistry Laboratory

CE January Solf

Subject: Engineering Chemistry

Observations:

No	Volume	pH of	∆р Н	ΔV	$\Delta pH/\Delta V$
10	of KOH Solution (mL)	solution			
	0.0	3-41	-	-	-
	1.0	3.45	0-04	/11	0.04
3	2.0	3.50	0.05	1	0.05
1	3.0	3.55	0.05		0.05
5	4.0	3.61	0.06	1	0.06
5	5.0	3.68	0.07	1	0.07
7	6.0	3.77	0.09	1	0.09
8	7.0	3.86	0.09	1 1	0.09
9	8.95	4.16	0.3	1.5	0-2
10	9	4.28	0.12	0.5	0.84
11	9.5	4.6	0.32	0.5	0.64
12	10	6.2	1.6	0.5	3.2
13	10.5	8.42	a-aa	0.5	4.44
14	11	9.37	0.95	0.5	1.9
15	11.5	9-77	0.4	0.5	0.8
16	12	10.04	0.27	0.5	0.54
17	12.5	10-20	0.16	0.5	0.32
18	13	10.36	0-16	0.5	0.32
19	14	10 . 53	0.17		0.17
20	15	10.63	0.1	1	0.1
21	16	10.72	0.09	1	0.999

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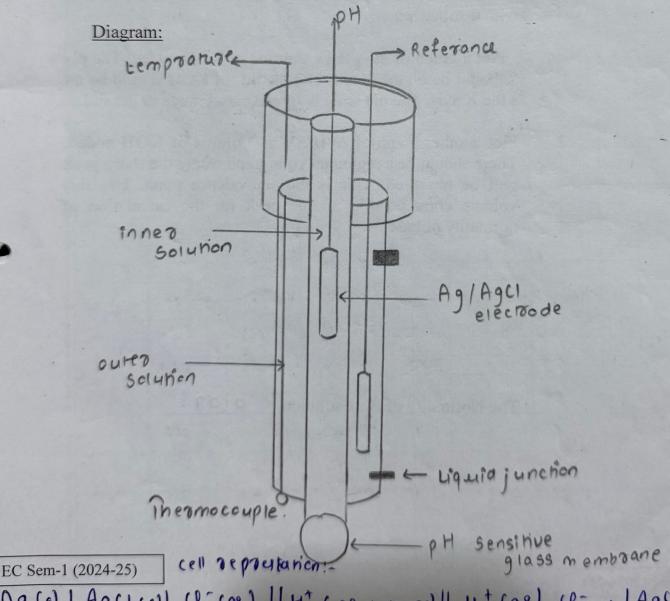


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CALCULATIONS

Use the relationship: $N_1V_1 = N_2V_2$ to determine the Normality of the base.

$$N_1 = 0.1$$
, $U_1 = 10$, $N_2 = 1$, $U_2 = 10.5$
 $0.1 \times 10 = 10 \times 10.5$
 $0.1 \times 10 = 0.1 \times 10$
 10.5
 10.5
 10.5



Ag (s) | Ag (1 (s) | U (oq) | H (oq, unknown) | H + (oq), U - (oq) | Ag (1 (s) | Ag (2) outer ref electrode.

