

Teacher's Signature ___

* OBSERVATIONS:

(1) TABLE 1:

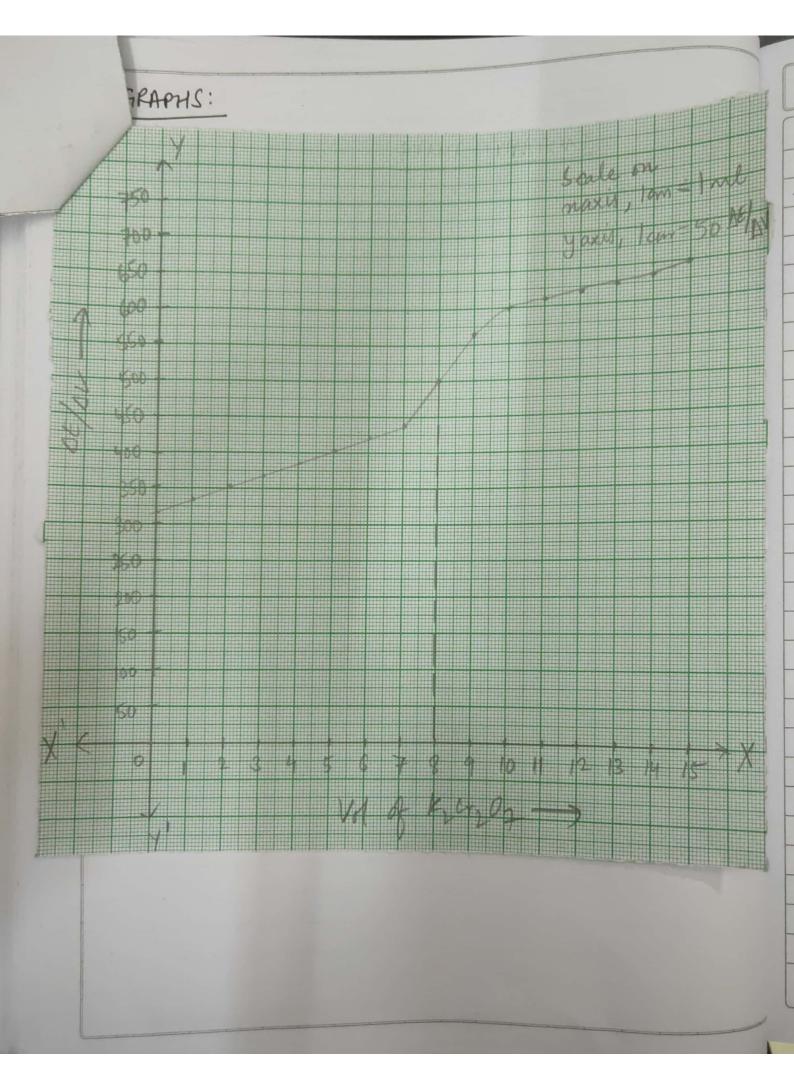
	7 11		1 1 1	BV (ml)	DE/ DV CUME	
S.H0	Vol. of K2(r2Oz (ml)	emf(v)	AE CV)	18V Cmc)	[
1234567891011213141516	7.0 7.2 7.4 7.8 8.0 8.2 8.6 8.8 9.2 9.4 9.6 9.8 10.0	433 441 452 464 599 622 645 645 658 667	- 8 II 1252 83 32 10 85 4 3 3 3 3 2 2	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	- 40 55 60 0 26 0 0 25 0 0 25 20 15 15 10 10	

_	Date
EXI	Page No
ملہ	PROCEDURES:
	The given ferrous ion solution is made up to a known
	The given ferrous ion solution is made up to a known volume in a SMF following the standard procedure with usual precautions.
	usual precautions.
7	Exactly 10 ml of the made up Fe2+ solution is pipette out
	Exactly 10 nel of the made up fe2+ solution is pipette out into a clean 100 nel beaker. About 10 nel of dilute 450
	and 100 ml of distilled water are added to it.
-	A platinum electrode is dipped into this solution and
	coupled with the standard calomel electrode. The
	resultant cell is then incorporated into the
	potentionetric circuit.
)	Standard K2 Cr2 Oz solution, which is taken in a burette,
	is added in installments of I ml into the beaker and
	is added in installments of I ml into the beaker and the cell e.m.f is measured after each addition by broker mixing.
	proper mixing.
\rightarrow	The process is continued till and also well beyond the
	The process is continued till and also well beyond the rentralization point as indicated by an absuft change in the enot
)	Note the volume K2 Cr2 of solution required for complete
	suidation of fem solution the first of e.m.s verticalities
	MULLIMITE AT THE SELECTION OF THE SELECT
	The which the enapound her ways
\rightarrow	Calculate the normality of green 12 states
7	one more similar titration is performed by adding
	A Saudada Ry Con A Adultation
	The Man Action of the Man Acti
	e.m.f corresponding to each addition.
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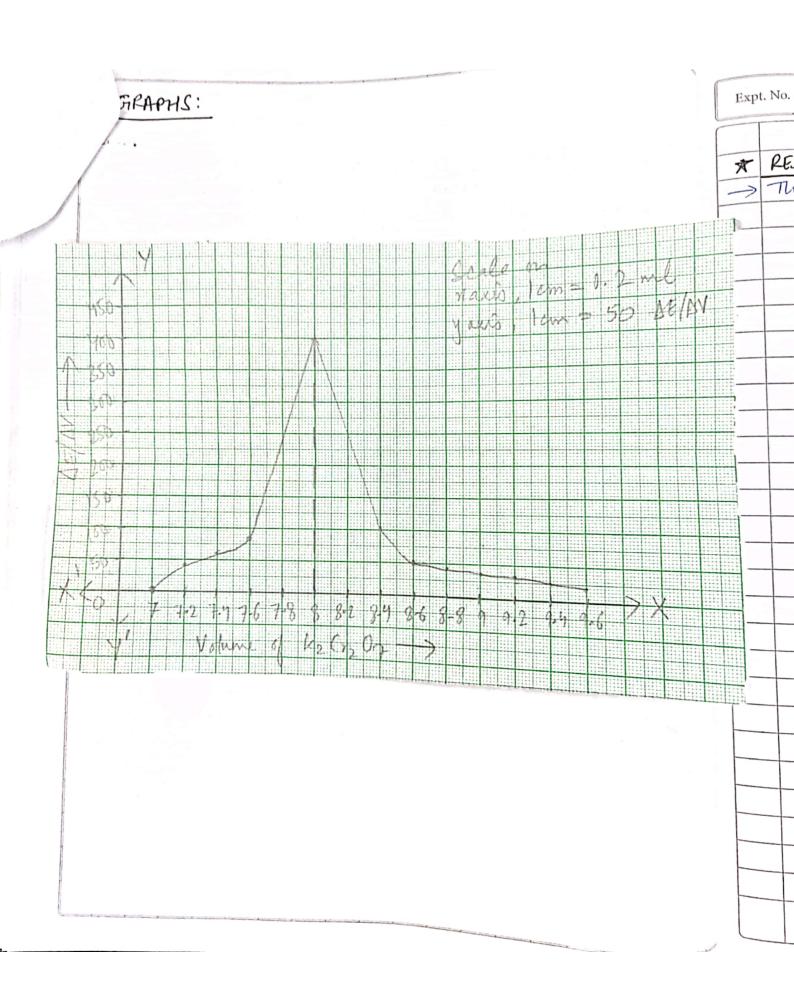
(2) TABLE 2:

1 7.0 433 -	S.No.	Vol. of K2 (12 07 cml)	EMF (V)	1E (V)	sv cme)	AE/AV (Vml)
8 8.4 632 10 0.2 50 9 8.6 640 8 0.2 40 10 8.8 649 4 0.2 20 11 9.0 649 4 0.2 15 13 9.4 655 3 0.2 15 14 9.6 658 3 0.2 15 15 9.8 660 2 0.2 10 16 10.0 667 2 0.2 10	456789101123145	7.2 7.6 8.0 8.4 8.8 9.0 2.4 9.6 8.9 9.8	441 452 464 576 599 622 645 649 652 658 660	8 11 12 23 23 10 85 43 33 2	0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2	55 60 260 415 50 425 20 15 15 10

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3 graph is plotted (1) EMF is	Volume of K2 Cr2 Dy addition.
The exact end point can	Volume of K2 Cr2 Oz addition.
of OF/AV vs Volume of	be determined from the prot
of OF/AV vs Volume of stam	dand Py Or Do sourcess.
* CALCULATIONS:	
> Volume of pipette solution CF	As) = V, ml = 10ml
Volume of K2 Cr2 O7 = V2 ml E Normality of K2 Cr2 O3 = N2 = 0	rom graßh) = 8 ml
Normatily of K2 (r, Dz = N2 = 0)	1 N 0 1
Normality of PAS (N,) = ?	8×0.1 = 0.09 = 1.008 N
Strength of PAS = N, = N2V2 =	10 10
Amount of Fe2+ (gl-1) = 55.85	× 0.000-8
Amount of Fe2+ (gl-1) = 55.85 = 0.4	468
:. Amount of Fe2+ in 100 ml=	0.4418 => 0.04468 g
l V	10
	2
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