Nov 2013 9189/5

Dilution table

ACCURACY MARKS

0,037

0,046

Ø,056

0,075

>0,075

- C	Completing the table - All values written to 2 d.p., last digit 0 or 5 Correct subtraction				
<i>A</i>	an values written to 2 a.p., two is	[1]			
C	Correct subtraction 15 fg	[1]			
V	Value within the range excluding mmi	[1]			
	Value within the range, excluding limits (28.25 to 28.75) Value of Titration	4.55,0			
T	able of Titration				
	a national state of the state o	CIJ			
E	chough titres				
All subtractions correct, not more than one zero starts					
/1. TT	an subtractions correct, 1101	[1]			
1	icking precise titres and showing calculation of average and completing the	CIJ.			
St	ummary correctly 2dps, last digit zero or 5	[1]			
14		C17			
X	Vorking formula:	(\cdot,\cdot)			
, ,	Volking formula.				
D	Vol. used by Cand Vol. of Supervisor				
سنلكر	titre of Cand titre of Supervisor				
	and of Cana				

			1 .	
Mark	Difference from supervisor		. 7	× 965.75
12	0,001	≤ 0.801	0.20	
11	0,002	0.001 to 0.00294	025	;
10	0,004	0.003 to 0.00699	630	2
9	0,007	0.007 to 0.01299	0.35	3
8	0,01\1	0.013 to 0.02099	0,40	4
チ	0,016	0:021 to 0.03099	0.45	5
6	0,022	0.031 to 0.04299	V.>D	6
5	0.029	DAUS to 0.05699	<. SS	7

0.057 to 0.07299

>0,1-3600

0,073 to 0,09099 C.65

0.091 to 0.11099 0.70

0.111 to 0,13599 0,80

ン、3 (

Sp- peralty

10

12



•	(a)	$n(AgNO_3) = \frac{\text{titre} \times 0.005}{1000};$	[1] [J
	(b) (evaluation; i) $n(X)$ in 25 cm ³ of FA1 = $n(AgNO_3)$ calc. in (a); $P(X)$ ratio of $(Ag^+: X^-)$ is $I:I$ $n(X')$ in 250 cm ³ of FA1 = ans $(b/X) \frac{250}{25}$ or ans $(a) X$	250 [1]
**	Ev 6)~ii) (c)	In the volume of FAI used = $n(X)$ in 250 cm ³ FAI, where $n(X)$ in 250 cm ³ FAI, $n(X)$ in 250 cm ³ FAI was in the Harver $n(X)$ in 250 cm ³ FAI	m/35fg A) 2
2		ASSESSMENT OF PLANNING SKILL a least Into a 25 cm³ FAZ add@titre volume of AgNO3 to precipitate I and enfield FA, vol; proportional volog titre; (ie) Fold and open a filter paper into a filter funnel. Filter; using filter paper funnel [1+1] Filter the ppt and retain residue.	CI ⁻ . HT
	4. 5. -6.	Weigh the residue on the filter paper Return the residue on the filter funnel Wash the residue with dilute ammonia to dissolve AgCl.	[1] [1] ,
	7.	Reweigh the residue and filter paper (Wash the residue from the filter paper and) weigh the filter paper	[1]
	9.	Calculate the mass of the total initial residue	[1]
	10.	Calculate the mass of residue after washing with dilute ammonia with $\frac{AgI.}{M_{7}-M_{8}}$	hich
×-1	11.	Calculate the mass of AgCI by subtracting the second residue mass the initial residue $(M_4 - M_7)$	[1]
	12.	Calculate the ratio of AgCI: AgI whate # ratio (divide by maller)	[i] +2+ (18) (147)
		(divide by maller)	\$ - \$ ^ . :