

write in this	Signature	- 2-	Random No.
aiaryin	Subject		
-			
	Titre	Values used in	Calculating .
	averag	Values used in a ge volume of FAI =	25:10, 25:10 Cm3
	'Reject	values which differ,	by More than 0.1
		Ja.	
	Avera	ge volume of FAI	used:
	= 25		
		2	+
			(2)
		25.10 cm3 ±0.1 _	\rightarrow (25 Marks)
		±0.2-	-> (2 mans)
		±0.3_	-> (15 Marks)
		±0.4-	-) (Imank)
		Parto.5	(Smark).
	•	7 ur 20	
			in the second second
		OUESTIONS:	
A	. [·) · .
(7) - F	11	
	117	+" 1,500	
		- tp - t	* +1
-			
	_	- (· · · · · · · · · · · · · · · · · ·	
	-i_		T - "
Ó	RFM	Of HoCO Q4.240 = (1	x2) + (12x2)+(16x1)
	1	1 ~ 1 ~ 1	
			126

.

	Candidate's Name
	Subject
1	Molarity of FA2 = 6.3
+	-0.05 M

Do not write	Candidate's Name
	Subject
	Mass of Weighing Container = 44.60gx
	Mass of Weighing Container = 39.40gV
	Wass of weighing container = 51 10g
	Mass of Tused = 5.20gV Accept masses recorded lapl.9 Volume of pipette used = 25.0/25/25.05cm
	Volume of pipette used = 25.0/25/25.00cm
	Table II:
	Final burette reading (Cm3) 13.30 26:50 39.70
	Initial burette reading (m²) 0.60 13:30 26.50
	Volume of FAI used (Cm3) 13.30 13.20 13.20
	Titro Valuor used in Calculationa avera
	Volume of FAI = 13.20, 13.20 cm2 t
	Average volume of FAI used:
	2
	= 13.20 cm ³

9	
	Subject Paper code Personal Number
	DEACE NO 1000 117
	(i) PERCENTAGE OF IRON INTO
	15000 3 . [[A2 Contrain 0.1762 SMAlac Of F
	1000 cm³ of FA3 Contain 0.0525 Moles of F
	250 cm³ of FA3 contain 0.0525 x 250
	1000
	1000 V
	= 0.013125 mole
-	= 0.013125 mole Molar mass of $Fe = 56g$.
	Imple of Fe Weighs 569
	0,012125 moles of Fo Word 0,012125456
	0.013125 moles of Fe Weigh 0.013125×562
	= 0.7359 /
	9
	Percentage of Fe = 0.735 × 1000 ×
	5.2
	1/11/20/
	= 14.13%
N	B. Deny Marks for Masso and percentage of F if a Candidate was outside accuracy range in Tables I SII (or Table 1 whine or Table II)
10	range in Taldes T &II (on Table 1 gline on Talde II)
	107AL = 30M

ot	Candidate's Name			Do not
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0				
Vr	2 UBSI	ERVATIONS	DEDUC	TIONS
	a) White fi	imes that x	NHzvaas,	herce
		Mitmus to the	NHUN	
	and form			
		Concentrated		
	Kydnochlo			
		liquid that	Water of	Crystallisat
		ud Fous, Copper (11)		
	Sulphate k		Salt 1	Mw
•		gas that turns	ca X	
		is reduced	SUZVags;	hence 6
	acidified		502-150	2-
		(VI) solution y	. 3/	
		ige to greek.	A1202 Mc	10, Bao,
		esidue:	1. A(3+ /Ma	et, Bazt,
	Whicsolves to	o give a green	Ni2t, Cr3t,	Fez Cuz+
-6	Colution	$\mathcal{A}\mathcal{A}$		
-	Green Dr	ecipitate insolub	6-Fe2t, Ni	24
	In excess	NaOH (ag)	1 2 X X	
<u>-</u>	Colourles	s filtrater	ALST PLYZn2	5 Sn2 5 Sn4+
		residue: X	Fezt Ni2	+ (
1				
a	Colourles	gas that turns	1 NHz Gas	; ;
	red librus	blew and form	S ATIL DE	
	donce whi	to fumes with	1 MAIA CON	Hirmed.
3	Concentra	ted hydrochloric	₹	
1	acia. L	X J		
:1	``			

Page 16 Candidate's Name ... Do not write in this margin Signature Random No. Subject. Any Correct two) obustess gas that turns dense White with Concentrated nudrochloric acid. precipita in so hubble do Observable ava ammonia drop-Wise excess. precipitate

Candidate's Name Do not write in this Signature Random No. margin Subject .. Paper code/...../ Personal Number n water iphatic Colourless ion. Whia has ac ervescence. absent hange Observable

' - Jid-As'- Nossa	5.00 E	*	1	
Candidate's Name	-11-	Destar No.		Do not write in this
Signature		Random No.	+++1	margin
Subject	Paper code	Personal Number		
×	/			
(C) Purplat	colour of	Alkenerfi	Dimed	
botaccium	Manganate(VII Colourless:) from an	alcohol	
turno to	Coleurlocció	ab ALCONE	V	(02)
IMMINS W	COLOUR RSS 7	dehydrate	dto	
		analke	vP 1	
		anauce	110	
		TECL V		-
(d) Sweet Smell.	fruity/	Ester for	meg	(02)
Chell.	J. 1	hence Jal present.	Cohol	ru
		present:	V	
0) (1011)	Colution	Tortian		
(e) Cloud	il solicital	Tertian	breent	(0)
Tormed	y Solution immediately.V	accorde		9
J				
				-
TH) COM	MENT!		V	100
	X		1	(12)
Wis	aliphatic	certiary o	ucono	(.)
		J	707AL	-1700
			TOTAL	= 1 /MK
On!	1. Zn			
WIT.	• •			
	77			
<u>Un</u>	2: 33			
	n3: 17			
		M 1/ c		
	7AL= 801	MK .		

1	Candidate's Name
not	Do no write
,	Subject Personal Number Personal Number
	(1) MOLARITY OF FOR IN FA3:
	1000 cm³ of FAI Contain 0.0199 moles of MnDi
	13.2 Cm3 of FAI Contain 0.0199 x 13.2 moles 1
	$= 2.6268 \times 10^4 \text{ moles}$
	MnO4 69 + 8 Hay + 5 Fe2+ Mn (cg) + 4 H20 + 5 Fei
	Reaction Mole ratio MnO4: Fe2 = 1:5
\	Mile of MnO4 (ag) react with 5 molos of Fe 24
_	· · 2.6268 ×10 moles of MnO4 react with 5×2.6268×1
	= 1.3134 ×103 moves
-	25.0cm of FA3 Contain 1.3134 x10 moles of fe
	1. 1000cm³ Of FA3 Contain 1.3134×10 ×1000 mc
	$= 0.0525 \text{Mole}_{1}$
	Molarity of fer in 1713 = 0:05257010 NB Deny mark for Molarity if a candidate was NB Deny mark for Molarity if a candidate was Table 18II for Table III
	outside the accuracy runge in