	COEST!	Paper / S	ubject Co	de: 66306 / 1	Pharmace	eutical A	nalysis-I		
3		E S	X S		30	, 6	So A	<i>3</i> 9	
			"OKIA		SEO.	36/5	3	6	,
			65	(3 Hours)	200	2017	(Total mai	·ks: 75)	8
l.B,		questions are				37	.050	15°	2
3	2. Figu	res to right	indicate fu	ıll marks.		S		6	9
	8		25		OK.		40,	26	)
). I	Choose	appropriate	option for	the followi	ng multip	le choice	-based que	estions.	20
-	Instrum	ent error can	be correcte	ed by	<u> </u>			97	250
Ś		Cleaning of in			S E	)	S. S.	57	4
27		Changing inst Calibration of			agrative	55	W. T.		0'
		Running a bla			Jaratus	100			9
		ble results of			indicates _	of a	nalytical m	ethod	
Ś		Accuracy	S. Y.		8	<i></i>		30	OK,
101	^	Precision Error	36	,00	150		, (50)		
\$	· · · · · · · · · · · · · · · · · · ·	Reliability	407	4	30	68		COT.	<i>∆</i>
<b>,</b>		a measure of	precision	of analytical	measurem	nents?	8	A CO	E ST
_		Standard devi		27	,	90	A CO	C,	
26	· /	Absolute erro	A 1		36	6	9	9	
		Mean absolut Mean	e error	300	60	2/5	20	.8	) ئے
	~/ )	ngth of 1 M io	dine solutio	on is equal to	soso	olution			
	& a. !	4 N	£2,	OR I	), <sup>(</sup> (	E C	36	3	150
	y -	LN	<i>z</i> 5	S. St.		), L	3		8
3		2N L/10 N				189 yr	2	75	)
5	On' .	ne hydrochlo	ride is assa	yed bye	10x		27	36,	,0
	a. I	Non-aqueous	acid-base	titrations	£5,	OR!		(E)	30
3		Complexome		n		7		66 /	0,
\$9°		Precipitation ( Aqueous acid		ions	COX.	47		ر کور	9
<u> </u>		nation of con			y polarogra	aphy is b	ased on		
	a. 1	Ikovic equati	on				150 Y	Chi.	200
É		Vernst equation	on .		,	<i>Y</i> (9			TEN .
D.		Ohm's law Faraday's Lav	v s	35	63			S	2
7		ve obtained b		pH as ordina	te against	volume o	of titrant as	250	. 0
	absiscis	sa is known a	s	\$ \( \text{\$\delta} \)	.0	100	507	60,	
4		Neutralisation	) "	(A)	( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )	39.	69		COX.
		Precipitation ( Standard curv				8	20	, A	
		Calibration cu		. 875	350		A CO		, _(
3	46	_is used as inc		erimetry	E CELO	36)		46	
		Starch			200	.07	2/5	20	30
20		Ceric ammon Ferroin	ium sulpha	ite	· 67.		5	7	N. C.
b		erroin Methyl violet	E. S.	JOK.			36	.08	<b>Y</b>
J		2	260	250	OK!		407	4/5	
	, 6 <sup>3</sup>	150					130 N		
4		3	5 6				9		
1113	55		20	Page 1	01 3	, oti			
>	Se.		(E)			(2)	The state of the s		
		V. )	675	~7	ムンド	~	( )		

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	<b>Y</b> .	
9	The co	oncentration 10 microgram of solute per cm <sup>3</sup> is
20	a.	1 ppm
	b.	10 ppb
	C.	10 ppm
10	a.	10 %w/v indicator is used for strong acid strong base titrations
210	a.	Crystal violet
50 40	b.	Methyl yellow
, 9),	\$ c.	Methyl orange
	d.	Xylenol orange
41	The tit	tration carried out between the KCl and AgNO <sub>3</sub> is termed as
	a.	Precipitation titration
Es, Ox,		Redox titration
	c. d.	Complexometric titration Non aqueous titration
12	g u.	is an example of sequestering agent
45	a.	Dimethyl glyoxime
		Potassium chromate
	c.	Salicyaldoxime
	d.	EDTA ST
13	·	is indicator electrode
8	~ / /	SHE AND
		Silver chloride electrode Glass electrode
	d.	Calomel electrode
14	\ / · · · · · · · · · · · · · · · · · ·	dicator used in complexometric titration are termed as
		pM indicator
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	<b>b</b> .	
9	c.	external indicator
		adsorption indicator
15	Benze	ne is solvent aprotic solvent
28/	b.	protogenic
D. ED.	c.	photophilic
	d.	
16		fy the correct combination of titrant and indicator:
E. San		disodium edetate and mordant balck II
	<b>b</b> .	perchloric acid and phenolphthalein
	d.	sodium methoxide and starch sodium thiosulphate and phenol red
17		ility of inorganic precipitate is reduced by
		addition of acid
		addition of organic solvent
8	Ç.	increase in temperature
10	d.	addition of precipitating agent
18		solution is used as an indicator in
		Permangnometry Cerrimetry
30	c.	lodine titration
(4)	d.	Dichromometry
	15	
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	4	
28	013	
2,	27	47ED582E013875C8B7E6BCCE6C0F3E10

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Ĉ.	
30 20	
19	Acidimetry is Cl. 2014
	a. Titration of base (analyte) with acid (titrant)
	<ul><li>b. Titration of acid (analyte) with base (titrant)</li><li>c. Determination of purity of acid substance</li></ul>
وُم	d. Blank determination of acidic solvent with base
20	Primary standards are
	a. Solutions of known concentration of analyte
	b. Substances of highest purity
	c. Substances of less purity than secondary standards
-	d. Substances of same standards as that of secondary standard
901	
<b>Q.</b> ]	II Answer any two questions. (Any 2)
1	Explain neutralisation curves. Write a detailed note on theories of acid base 10
•	indicators. The state of the st
2	a. Explain the concept of accuracy and precision of analytical method
5	<ul><li>b. Give two examples of each of the following</li><li>1. Reagent error</li></ul>
	2. Primary standard
	3. Personal error
3 . (	Give an overview on following redox titrations with its principle and applications 10
	1. Cerrimetry
	2. Iodimetry
	3. Iodometry
	III Answer any seven questions (Any Seven)
	Explain the principle and reaction involved in Mohr's method  5
2	Give principle and reaction involved in assay of calcium gluconate injection  5  Explain unit operations in gravimatria analysis
3 4	Explain unit operations in gravimetric analysis  Give principle reaction involved in determination of diazotization titration with  5
•	suitable example
5.	Explain theory and principle of Conductometry. Give any two applications of 5
	conductometry
6	What is indicator electrode? Give construction and working of glass electrode 5
7	Write in detail about DME with respect to construction, working advantages and 5
	disadvantages
8	Replicate water samples are analysed for water hardness with following results 5
O.	102.2, 102.8, 103.1 and 102.3 ppm CaCO <sub>3</sub> calculate Mean, Median and standard
9	Deviation.  When 50 ml of 0.1 M HCl is titusted with 0.1M NoOH, calculate the pH valves at 5
9	When 50 ml of 0.1 M HCl is titrated with 0.1M NaOH, calculate the pH values at the start of the titration and after addition of 10,50,60 ml of titrant.
	the start of the titration and after addition of 10,50,00 hill of titratit.
6	
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