



BP-102-T Pharmaceutical Analysis-I (711102)

P. Pages: 2

Time: Three Hours

Max. Marks: 75

Instructions	4- 0		
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- 1. Do not write anything on question paper except Seat No.
- 2. Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
- 3. Students should note, no supplement will be provided.
- Draw a well labelled diagram wherever necessary.
- 5. Numbers to the right indicate full marks.

1.	A)	Choose the correct alternatives from the following and rewrite the complete	1x10=10
		sentence with answer.	ixio it

- $1M H_2 SO_4 = ---- H_2 SO_4$.
 - 2M

iii) 2N

- 0.5N iv)
- Primary standard used in standardization of sulfuric acid is ----- as per IP
 - Sulfuric acid
 - ii) PHP
 - iii) Anhydrous sodium carbonate
 - iv) Sodium bicarbonate.
- Conductance of hydrogen ion at 25°C is -
 - 198

ii) 76

iii) 349

- 58 iv)
- EDTA forms six ----- with metal cations makes EDTA or hexadentate ligand.
 - i) lonic bond, divalent
 - ii) Covalent bond, divalent
 - iii) Covalent bond tetravalent
 - iv) Co-ordinate covalent bond, tetravalent
- In polarography, the instrument used is called as ----- and the current voltage curve recorded is called as ----
 - i) Polarography, polarogram ii)
 - Polarograph, polarogram

 - iii) Polarogram, polarograph iv) Polarogram, polarography

	f) The linear relationship between diffusion current (id) & the concentration of electroactive species is shown by -							
		i) Nernst equation iii) Ilkovic equation	ii) iv)	Henderson - Hasselbalch equation Half wave potential equation.				
	g)	KMnO ₄ is used as						
		i) Self indicator iii) Internal indicator	ii) iv)					
	h)	When titrating a strong acid with be	th a st	rong base, the equivalence point will				
		i) Below a pH 7.0 iii) At pH 7.0	ii) iv)	Above a pH 7.0 Either at above or below pH 7.0				
	i)	Benzene is solvent. i) Aprotic iii) Protogenic	ii) iv)	Protophilic Amphiprotic				
	j)	Which of the following can be a complexometric titration? i) Redox indicator	ii)	Adsorption indicator				
		iii) Metallochromic indicator	iv)	Specific indicator				
B)	(VIII)	Answer the following. 2x5=10						
		a) What is Ostwald's ripening? Give its significance.						
	b)	Give Nernst equation. Differentiate between iodimetry	, 9 ioo	lomotry				
	d)	Why dibutyl phthalate is added						
	e)	Draw a well labelled diagram of						
2.	Ans	Answer any two of the following.						
	a)							
	b)	Describe in detail about conduc	ctome	tric titrations.				
	c)	Explain Mohr's and Volhard's n						
3.	Answer any seven of the following. 5x7=35							
	a)	Write a note on diazotization tit	CT C					
	b)	How will you prepare and stand	dardiz	e 0.1N NaOH as per IP.				
	c)	test for chloride.	react	ion and procedure involved in limit				
	 d) Give the principle, working and construction of dropping mercury electrode. 							
	e)	그 그가 그렇게 하면 하면 사람들이 얼마나 하는데 그 사람들이 되었다면 하는데 그는데 그는데 그는데 그는데 그는데 그리고 그렇게 되었다면 하는데 그를 하는데 그를 다 먹었다.						
	f)							
	g)	g) Comment on masking and demasking agents.						
	h)	Write note on errors in measure						
	i)	Enlist and explain factors affect	ting so	olubility & precipitation.				
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