Registration no:																					
Total Number of Pages: 2 257 257 257										257	B.PHARM	257									
2 <sup>nd</sup> Semester Regular Examination 2015-16 PHARM. ANALYSIS - I Branch: Pharmacy Time: 3 Hours Max Marks: 100 QUESTION CODE: W508 Answer Part-A which is compulsory and any four from the Part-B. The figures in the right hand margin indicate marks.											15PH201	257									
0.4		Part-A (Answer all the questions)													(0 40)						
Q.1		Answer the following  The difference between equivalence point and end point of titration is called											(2 x 10)								
	<b>a)</b>	as			•		•			iia p		257		257		257					
	b)	The pH of 0.01N nitric acid is																			
	c)	is used as a coating agent in Volhard's method of										of									
		titration.																			
	d) Two indicators used in acid-base titration are and																				
	Eriochrome black T and murexide are used as indicators in method of titration.									257		257									
	f)	Examples of two organic precipitants are and																			
	g)																				
	h) The solution which resists the change in pH even after addition amount of acid or base is called									of small	0.57		0.57								
	257 <b>i)</b>	In titration, the solution which is generally taken in a burette is called and the substance which is titrated is called										257		257							
Q.2	j)	Balance the redox reaction: $Cr_2O_7^{-2} + Fe^{+2} \rightarrow Fe^{+3} + Cr^{+3}$ Answer the following												(2x10)							
	a)													(ZX 10)							
	<b>b</b> )	Classify differen	ent ty	/pes	of err	ors a	ınd gi	ive oi	ne ex	amp	le fro	<sup>257</sup> ea	ch catego	ory.		257					
	c)	What is Unive	rsal i	ndica	ator?																
	d)																				
	e)	What is common ion effect?																			
	<b>f)</b>	Give the princ	iple d	of Faj	an's	meth	od of	ftitra	ion.			257		257	257 <b>Sage</b>						

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	g)	What is self indicator? Give example.		
	<b>h</b> ),	Why acetic anhydride is used in the preparation of 0.1N Perchloric acid? 257		2
	i)	What are Argentometric titrations?		
	j)	What are ligands? Classify them with examples.		
		Part-B (Answer any four questions)		
Q.3	a)	Write the steps for minimization of errors in pharmaceutical analysis.	(7)	
	<b>b)</b>	What do you mean by neutralization curve? Mention its significance by taking the example of titration of a strong acid against a strong base.	(8)	2
Q.4	a)	Define and describe different types of complexometric titrations.	(6)	
	b)	Write a note on chelating agents.	(3)	
	c)	Give the procedure for determination of calcium by EDTA titration.	(6)	
	257	257 257 257 257 257		2
Q.5.	a)	What are the advantages of non-aqueous titrations?	(2)	
	b)	Give a note on the solvents used in non-aqueous method of titrations.	(6)	
	c)	Write the method of preparation and standardization of 0.1N Potassium methoxide.	(7)	
Q.6	<b>a)</b>	Write down briefly the steps involved in gravimetric analysis by precipitation methods.	(8)	2
	b)	What is thermogravimetric curve? Mention its features. Mention the application with suitable example.	(7)	
Q.7.	<b>a)</b>	Give the principle behind Mohr's method of titrations.	(6)	2
	b)	Explain the principle and procedure behind estimation of sodium chloride by Volhard's method of titration.	(9)	
<b>Q.8</b>	a)	Write the theory of redox titrations.	(3)	
	b)	How will you calculate strength and equivalent weights of oxidizing and reducing agents? Explain with suitable examples.	(6)	
Q.9	c)	Write a note on preparation and standardization of 0.1N KMnO <sub>4</sub> solution. <sup>257</sup> Answer the following (Any three)	(6) (5x3)	2
	a)	Masking and demasking in complexometric titration.		
	b)	Ideal characteristics of primary standard		
	c)	Quinonoid theory of indicators		_
	<b>d)</b>	Law of mass action		