Exam Seat No: Enrollment No:		nt No:
	C.U.SHAH UNIVERSITY	
	Wadhwan City	
ubject Code : 5SC01CHC4	Summer Examination-2014	Date: 19/06/2014
ubject Name Analytical Chemistry Branch/Semester:- M.Sc(Chemistry)/I Examination : Remedial		Time:10:30 To 1:30
	ssary) at right places	
	SECTION I	
Q-1. Answer the following ques	tions.	
1. Define: Qualitative and Q	Quantitative analysis with example.	(2)
2. Define: Accuracy & Prec	ision	(2)
3. Define: LOD & LOQ		(2)
4. State law of mass action.		(1)
Q-2. Discuss the following quest 1. Write principle and apple	S MAN BHART THE O	
a) Terbidimetry		(5)
b) Nephelometry	though aver and the thirty	(5)
2. What is analytical chemis	try? Explain the types of chemical analys	sis with suitable examples. (4)
	OR	
1. Give the principle and ap	plication of following:	
a) UV visible spectrophotome		(5)
b) Flame photometry	-	(5)
-	ods of chemical analysis with example	(4)

Q-3. Answer the following questions	
1. Write a note on instrumentation of Flame Photometry with neat labeled diagram.	(7)
2. Describe about instrumentation of Flourimetry with neat labeled diagram.	(7)
OR	
1. Describe the method of determination of oil and fat in food samples.	(7)
2. Enumerate and discuss chemical tests for qualitative analysis of Proteins.	(7)

SECTION II

Q.1. Answer the following questions.

1.	Enumerate any four indicators used in acid base titration.	(2)
2.	Define Carbohydrates and give the names of their natural sources.	(2)
3.	Define: Chromophore	(1)
4.	Define: Titration	(1)
5.	Define: End Point.	(1)
Q-2. D	viscuss the following Questions.	
1.	Explain hydrolysis of salt of strong acid and weak base.	(5)
2.	Write principle and application of Flourimetry.	(5)
3.	Differentiate between turbidimetry and Nephelometry.	(4)
	OR	
1.	Write principle and application of acid base neutralization titration in general.	(5)
2.	Explain principle of titration of Calcium gluconate.	(5)
3.	Discuss common ion effect	(4)
Q-3. A	Answer the following questions in detail.	
1.	Explain Significance of law of mass action and equilibrium constant.	(7)
2.	Describe chemical tests for qualitative analysis of Carbohydrates.	(7)
1.	Describe instrumentation of UV Visible spectrophotometry with neat labeled dia	agram
		(7)
2.	Describe Lambert-beer's law in detail.	(7)

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