	Enrollme	ent No:	No: Exam Seat No:					
	C.U.SHAH UNIVERSITY Winter Examination-2018							
	Subject N	Name : Analytical Chemistry	- I					
	Subject C	Code: 4SC03ANC1	Branch: B.Sc. (Chemistry, Physics)					
	Semester	2: 3 Date: 04/12/2018	Time: 02:30 To 05:30 Marks: 70					
	(2) Ir (3) D	Jse of Programmable calculate nstructions written on main an	or & any other electronic instrument is prohibited. swer book are strictly to be obeyed. s (if necessary) at right places.					
Q-1								
	a)	Define chromatography	1 0	01				
	b)	What do you mean by R _f va		01				
	c) d)	What is called argentometric Define titration and titrant	c titration?	01 01				
	u) e)	What do you mean by EMF	9	01				
	f)	Define fluorescence	•	01				
	g)	What is quenching?		01				
	h)	What do you mean by neutralization titration?						
	i)	Give any two examples of weak acid.						
	j)	What is known as reference electrode?						
	k)	Write any two examples of strong base.		01				
	l)	Define mobile phase in chro	omatography	01				
	m)	What is called adsorbent?		01				
	n)	How we can determine pH of	of solution using pH paper?	01				
Atter	npt any fo	our questions from Q-2 to Q	-8					
Q-2		Attempt all questions		(14)				
	a)		and explain each terms involve in the diagram.	07				
	b)	Discuss the advantages, lim	itations and applications of fluorimetry.	07				

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	Attempt all questions	(14)
a)	Draw the Jablonski diagram and explain each terms involve in the diagram.	07
b)	Discuss the advantages, limitations and applications of fluorimetry.	07
	Attempt all questions	
a)	Explain the redox titration in detail.	07
b)	Explain the weak acid and strong base titration with curve.	07
	Attempt all questions	(14)
a)	Explain the argentometric titration for halogen (Cl ⁻ , Br ⁻ , I ⁻) with graph.	07
b)	What is TLC? Write a note on TLC.	07
	a) b)	 a) Draw the Jablonski diagram and explain each terms involve in the diagram. b) Discuss the advantages, limitations and applications of fluorimetry. Attempt all questions a) Explain the redox titration in detail. b) Explain the weak acid and strong base titration with curve. Attempt all questions a) Explain the argentometric titration for halogen (Cl⁻, Br⁻, Γ) with graph. What is TLC? Write a note on TLC



	Attempt all questions	(14)
a)	Discuss Classification of chromatography based on its stationary phase and	07
	mobile phase and based on the nature of the fixed and moving phase.	
b)	Explain the column chromatography.	07
	Attempt all questions	(14)
a)	• •	07
b)	Discuss the instrumentation of fluorimeter.	07
	Attempt all questions	(14)
a)	Explain the potentiometric method using hydrogen and calomel electrodes.	07
b)	Discuss the method for determination of dissociation constant of weak acid.	07
	Attempt all questions	(14)
a)	• •	07
		07
b)	influencing fluorescence intensity.	07
	b)a)b)	mobile phase and based on the nature of the fixed and moving phase. Explain the column chromatography. Attempt all questions Write a note on paper chromatography. Discuss the instrumentation of fluorimeter. Attempt all questions Explain the potentiometric method using hydrogen and calomel electrodes. Discuss the method for determination of dissociation constant of weak acid. Attempt all questions Write the applications of R _f value and discuss the factors affecting on it. Discuss: (a) Classification of adsorbent used in chromatography, and (b) Factors

