C.U.SHAH UNIVERSITY Summer Examination-2020

Subject Name: Analytical Chemistry-I

	Subject Code: 4SC03ANC1			Branch: B.Sc. (Chemistry)	
	Semeste	er : 3	Date : 03/03/2020	Time : 02:30 To 05:30	Marks :70
	(2) (3)	Use of Pro Instruction Draw near	-	ny other electronic instrument is prohibi book are strictly to be obeyed. ecessary) at right places.	ted.
Q-1	a) b) c) d) e) f) g) h) i) j) k)	Define: Define: Define: Define: Write th If the lig known a What do What is Write th Write a	t the following questions: Fluorescence Stationary phase Chromatography Titration the formula of R_f value. ght is emitted after as phosphorescence. to you mean by EMF? called singlet state? the advantages of fluorimetry short note on pH-scale. quenching?	s of absorption, then the emitted light v	(14) 01 01 01 01 01 will 01 01 02 02 02 02
Atte	mpt any	four ques	stions from Q-2 to Q-8		
Q-2	a) b) c)	Discuss Write a	t all questions about the classification of note on Circular paper chromat Descending paper chromat	omatography.	(14) 05 05 04
Q-3	a) b)	Explain	t all questions factors affecting fluorescenthe theory of fluorescence	nce.	(14) 07 07
Q-4	a) b)	Discuss	t all questions the applications and limita the instrumentation of fluo	-	(14) 07 07
Q-5	a) b)	Write a	t all questions note on TLC. the Adsorption chromatogra	aphy.	(14) 07 07



Q-6		(14)	
-	a)	What is an acid-base titration? Describe it in detail with suitable example.	07
	b)	Discuss the method for determination of dissociation constant of weak acid.	
Q-7		Attempt all questions	
-	a)	What is an adsorbent? Discuss the types of adsorbent with suitable examples.	05
	b)	Discuss the choice of solvent.	05
	c)	Discuss about different methods for visualization in TLC.	04
Q-8		Attempt all questions	(14)
C	a)	Explain Redox titration with any one example.	07
	b)	Discuss about weak acid and strong base titration curve in pH-metric method.	07

