C.U. SHAH UNIVERSITY Winter Examination-2021

Subject Name: Analytical Chemistry-I

	Subject	Code: 4	SC03ANC1	Branch: B.Sc. (Chemistry	<i>י</i>)
	Semester		Date: 16/12/2021	Time: 02:30 To 05:30	Marks: 70
	 Instructions: (1) Use of Programmable calculator & any other electronic instrument is prohibited. (2) Instructions written on main answer book are strictly to be obeyed. (3) Draw neat diagrams and figures (if necessary) at right places. (4) Assume suitable data if needed. 				
Q-1		Attem	pt the following question	15:	(14)
	a)	Define	e dissociation constant.		(01)
	b)		any two examples of weak		(01)
	c)		Rf value in chromatograp	•	(01)
	d)		PH and give equation for	finding the ph value.	(02)
	e) f)		is chromatogram? : Reduction.		(01) (01)
	r) g)		down the Nernst equation.		(01)
	b)		mobile phase and stationa		(02)
	i)		do you mean by fluorescer	• •	(01)
	j)	What i	is called excited singlet and	d excited triplet state?	(02)
	k)	What i	is vibrational relaxation?		(01)
Atte	empt any f	four que	estions from Q-2 to Q-8		
Q-2			pt all questions		(14)
	a)		ss the instrumentation of fl		07
	b)	Explai phase.		hromatography based on stationary	and mobile 07
Q-3	5	Attem	pt all questions		(14)
χv	a)		n acid base titration with e	example.	07
	b)	-		mitations, and applications of fluorim	netry. 07
Q-4	Ļ	Attem	pt all questions		(14)
	a)		a note on column chromat		07
	b)	Explai	n in details ascending & c	ircular paper chromatography.	07
0.5	Ţ	Attom	pt all questions		(14)
Q-5	a)		is the glass and calomel ele	ectrode in details.	(14) 07
	b)		ss the Jablonski diagram.		07
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