Enrollment No: Exam Seat No: C. U. SHAH UNIVERSITY Winter Examination-2021						
Subject	Nam	ne : Analytical Chemistry-II				
Subject	Cod	e: 4SC05ACH1	Branch: B.Sc. (Chemistry	y)		
Semeste	er: 5	Date: 13/12/2021	Time: 11:00 To 02:00	Marks: 70		
(2) (3)	Use of Instru Draw	of Programmable calculator & any uctions written on main answer both neat diagrams and figures (if neat me suitable data if needed.	ook are strictly to be obeyed.	rohibited.		
Q-1		Attempt the following question	ns:	(14)		
Attemn	b) c) d) e) f) g) h) i) j) k) n)	Define Errors. Define Accuracy. What are significant figures? What is the difference between I What do you mean by precision What do you mean by saturated so Define Statistics. Which one is highly reactive Cl-What is absorbance? What is the unit of conductance? Define absorption. What is titration? Give the examples of weak base Discuss the range of pH in short	? solution? - , Br- , I-? es.			
Q-2		Attempt all questions Discuss the types of error in deta Discuss Q-test and T-test.		(14) 07 07		
Q-3	L	Attempt all questions Write a note on 1. Minimization of error 2. Coefficient of variance		(14) 08		



В

Write a note on 1. Absolute error

06

		2. Relative Effor	
Q-4		Attempt all questions	(14)
	\mathbf{A}	Discuss Lambert-Beer's Law Derivation.	06
	В	Discuss the Separations of following species	08
		1. NO ⁻² , NO ⁻³ , Br	
		2. S ⁻ , SO ⁻²	
Q-5		Attempt all questions	(14)
	\mathbf{A}	Discuss the applications of Lambert-Beer's Law.	06
	В	Write a note on	08
		1. Mohr's method	
		2. Fazan's method	
Q-6		Attempt all questions	(14)
	\mathbf{A}	Discuss the principle and application of redox titration.	07
	В	Discuss Kohlrausch law and its importance.	07
Q-7		Attempt all questions	(14)
	\mathbf{A}	Discuss the principle and application of precipitation titration.	06
	В	Write a note on cell constant and its importance.	04
	\mathbf{C}	Write a note on Volhard's method.	04
Q-8		Attempt all questions	(14)
_	\mathbf{A}	Discuss degree of hydrolysis.	06
	В	Write a note on importance of conductivity water.	04
	C	Discuss the importance of conductivity electrodes.	04

