

Enrollment No: \_\_\_\_\_

Exam Seat No: \_\_\_\_\_

# C. U. SHAH UNIVERSITY

## Winter Examination-2022

Subject Name : Analytical Chemistry-I

Subject Code : 4SC03ANC1

Branch: B.Sc. (Chemistry)

Semester: 3

Date: 24/11/2022

Time: 11:00 To 02:00

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.

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<b>Q-1</b>	<b>Attempt the following questions:</b>	<b>(14)</b>
	a) Define stationary phase and mobile phase.	01
	b) Define development	01
	c) Who gave apparatus for TLC?	01
	d) What is titration?	01
	e) What is known as argentometric titration?	01
	f) Give types of titration?	01
	g) Define PH.	01
	h) Define absorption and emission.	01
	i) What is EMF?	01
	j) What is standard electrode potential?	01
	k) Define fluorescence.	01
	l) Define radiative and non radiative transition.	01
	m) Who invented adsorption chromatography?	01
	n) Give Nernst equation.	01

**Attempt any four questions from Q-2 to Q-8.**

<b>Q-2</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Discuss about column or adsorption chromatography.	<b>07</b>
<b>B</b>	Write a note on ascending paper chromatography.	<b>07</b>
<b>Q-3</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Give classification of chromatography.	<b>07</b>
<b>B</b>	Discuss about types of quenching in fluorescence.	<b>07</b>
<b>Q-4</b>	<b>Attempt all questions</b>	<b>(14)</b>
<b>A</b>	Explain thin layer chromatography.	<b>07</b>
<b>B</b>	Explain Jablonski diagram with proper figure.	<b>07</b>



