

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name : Analytical Chemistry - I

Subject Code : 4SC03ANC1

Branch: B.Sc. (Chemistry, Physics)

Semester : 3

Date : 04/12/2018

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.
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Q-1	Attempt the following questions:	(14)
	a) Define chromatography	01
	b) What do you mean by R_f value?	01
	c) What is called argentometric titration?	01
	d) Define titration and titrant	01
	e) What do you mean by EMF?	01
	f) Define fluorescence	01
	g) What is quenching?	01
	h) What do you mean by neutralization titration?	01
	i) Give any two examples of weak acid.	01
	j) What is known as reference electrode?	01
	k) Write any two examples of strong base.	01
	l) Define mobile phase in chromatography	01
	m) What is called adsorbent?	01
	n) How we can determine pH of solution using pH paper?	01

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

Q-2	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
Q-3	Attempt all questions	(14)
	a) Explain the redox titration in detail.	07
	b) Explain the weak acid and strong base titration with curve.	07
Q-4	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



