C.U. SHAH UNIVERSITY Winter Examination-2018

Subject Code:	4PS05PHA2	Branch: B.Pharm	
Semester: 5	Date: 03/12/2018	Time: 10:30 To 01:30	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		Attempt the following questions:	(14)
	a)	Define Rx Value.	(1)
	b)	Write Kohlrausch Law.	(1)
	c)	Define Cocurrent Validation.	(1)
	d)	Explain Ilkovic Equation.	(1)
	e)	Define Half Wave Potential.	(1)
	f)	Explain Edge effect.	(1)
	g)	What do you mean by Melting Point.	(1)
	h)	Define Retrospective Validation.	(1)
	i)	Define Molar Conductance.	(1)
	j)	Write R _F Value.	(1)
	k)	Explain HETP.	(1)
	l)	Define Simple Extraction.	(1)
	m)	Define specific heat Capacity,	(1)
	n)	Define Diffusion Current.	(1)
Attem	pt any f	our questions from Q-2 to Q-8	
Q-2			(14)
-	a	Describe Karl Fischer titration in detail.	(7)
	b	Explain Differential Scanning Calorimetry and write its application.	(7)
Q-3			(14)
•	a	Enumerate different types of Electrode and explain Calomel electrode in detail.	(7)
	b	Define Conductance and factors affecting Conductance.	(7)

Q-4

		(14)
a	Write a note on development Technique of paper Chromatography.	(7)
b	Explain the Preparation and Activation of TLC Plate.	(7)



Q-5			(14)
	a	Describe Basics of current in Polarography.	(7)
	b	Explain Construction, working of Dropping Mercury Electrode along with advantage and disadvantage.	(7)
Q-6			(14)
	a	Give the Classification of Chromatography along with the principle.	(7)
	b	Write a note on Polarimetry.	(7)
Q-7			(14)
	a	What do you mean by Multiple Extraction and explain effect of pH on Extractability of drug.	(7)
	b	Write a brief note on detecting technique used in TLC.	(7)
Q-8			(14)
	a	Explain the various Factors affecting Column Efficiency	(7)
	b	Explain the advantages and limitation of Instrumental Analytical method	(7)

