Enrollment No:	Exam Seat No:
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C.U. SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Pharmaceutical Analysis - II

Subject Code: 4PS05PHA2 **Branch:** B. Pharm

Semester: 5 Date:19/03/2019 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)	Explain Nernst Equation.	(1)
	b)	Define Retrospective Validation.	(1)
	c)	Write Kohlrausch Law.	(1)
	d)	Explain Half Wave Potential.	(1)
	e)	Define Rx Value.	(1)
	f)	What do you mean by specific heat Capacity.	(1)
	g)	Define Limiting Current.	(1)
	h)	Write R _F Value.	(1)
	i)	Define Equivalent Conductance.	(1)
	j)	Define Prospective Validation.	(1)
	k)	Explain HETP.	(1)
	1)	Define Simple Extraction.	(1)
	m)	Explain Edge effect.	(1)
	n)	Define Melting Point.	(1)
Atten	npt any	four questions from Q-2 to Q-8	
Q-2			(14)
	a	Define Conductance and factors affecting Conductance.	(7)
	b	What do you mean by Multiple Extraction and explain effect of pH on Extractability of drug.	(7)
Q-3			(14)
-	a	Describe the principle, construction, advantages and applications of Potentiometric titration.	(7)
	b	Describe basics of current in Polarography.	(7)

Q-4			(14)
	a	Write a note on development technique of Thin layer Chromatography.	(7)
	b	Explain in detail Dropping Mercury Electrode.	(7)
Q-5			(14)
	a	Classification of Chromatography on the basis of principle.	(7)
	b	Explain the preparation and activation of TLC Plate.	(7)
Q-6			(14)
_	a	Describe Karl fischer titration in detail.	(7)
	b	Write a note on Polarimetry.	(7)
Q-7			(14)
	a	Explain Differential Thermal analysis and write its applications.	(7)
	b	Enumerate different types of electrode and explain Glass electrode in detail	(7)
Q-8			(14)
-	a	Explain the various factors affecting Coloumn chromatography.	(7)
	b	Write a brief note on detecting technique used in Paper chromatography	(7)

