Enrollment No: _____ Exam Seat No: _____

C.U. SHAH UNIVERSITY

Summer Examination-2020

Subject Name: Pharmaceutical Analysis - II

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

Semester: 5 **Date: 02/03/2020** **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 following questions:** **(14)**

a)	Define the term Retrospective validation	(1)
b)	What do you mean by Rm value?	(1)
c)	Define the term Concurrent validation.	(1)
d)	Write Ilkovic equation.	(1)
e)	Write Kohlrausch law.	(1)
f)	Classify Chromatographic methods.	(1)
g)	What is Multiple Extraction?	(1)
h)	Write any two applications of Calorimetry.	(1)
i)	Explain HETP.	(1)
j)	What do you mean by Melting Point?	(1)
k)	Write Nerst equation.	(1)
l)	What can be used as Stationary phase in TLC?	(1)
m)	Define the term Validation.	(1)
n)	Types of Electrode used in Potentiometry.	(1)

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

Q-2 **(14)**

a	Define: Chromatography. Write theories & mechanism associated with it.	(7)
b	Explain preparation and activation of TLC.	(7)

Q-3 **(14)**

a	Write a note on polarimetry.	(7)
b	Explain Differential Scanning Calorimetry and write its application.	(7)

Q-4 **(14)**

a	Discuss any one titration method which can be used to determine trace amount of water in sample.	(7)

	b	Define: Extraction. What is basic mechanism behind it? Compare & Differentiate Simple & Continuous Extraction Method.	(7)
Q-5			**(14)**
	a	Give a brief note on DTA & its application in Pharmacy.	(7)
	b	Describe acid-base titrations.	(7)
Q-6			**(14)**
	a	Enumerate different types of Electrode and explain Calomel electrode in detail.	(7)
	b	Define Conductance and factors affecting Conductance.	(7)
Q-7			**(14)**
	a	What is SCF? Write its application in it.	(7)
	b	Explain construction, working of Dropping Mercury Electrode along with advantage and disadvantage.	(7)
Q-8			**(14)**
	a	Why Instrumental Analytical methods are useful tool? Explain the advantages and limitation of Instrumental Analytical method.	(7)
	b	Discuss in detail Complexometric titration.	(7)