

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

**C.U. SHAH UNIVERSITY**  
**Winter Examination-2020**

**Subject Name: Pharmaceutical Analysis I - Theory**

**Subject Code: BP102T**

**Branch: B.Pharm**

**Semester: 1**

**Date: 09/03/2021**

**Time: 11:00 To 02:00**

**Marks: 75**

**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>(20)</b>
	a) Define Normality and Molarity.	2
	b) Define Metal ion indicator.	2
	c) Define Aprotic and Protophilic solvent with examples	2
	d) What is Half wave potential.	2
	e) Explain the concept of Oxidation and reduction.	2
	f) Write down the Nernst equation.	2
	g) Give the meaning of Error and write its types.	2
	h) Define Pharmaceutical analysis and enumerate its types	2
	i) Define Accuracy and Precision.	2
	j) Give principle of diazotization titration.	2

**Attempt the following questions:**

<b>Q-2</b>	<b>Attempt any two of following :</b>	<b>(20)</b>
	A Discuss the various steps of Gravimetric analysis.	10
	B Explain the various types of electrodes in detail and give a note on standard calomel electrode in detail.	10
	C Describe the theory of Acid Base indicator.	10
<b>Q-3</b>	<b>Attempt any Seven of following :</b>	<b>(35)</b>
	A Define Non aqueous titration and explain Alkalimetry.	5
	B Give the Acid base concept of acid base according to Lowry Bronsted and Lewis.	5
	C Explain Masking and Demasking Agent in detail.	5
	D Describe the Basics of Current in Polarography	5
	E Write a note on different type of conductivity cell.	5
	F Explain the limit test of sulphate.	5
	G Explain Iodometry in detail.	5
	H Define precipitation titration and explain Mohrs method in detail.	5
	I Define Ligand, give its types with Example and Explain the types of Complexometric titration.	5

