Enrollment No: Exa	am Seat No:
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C.U.SHAH UNIVERSITY

Winter Examination-2015

Subject Name: Pharmaceutical Analysis I

Subject Code: 4PS01PHA1 Branch: B.Pharm

Semester: II Date: 20/11/2015 Time: ___10:30__To_1:30__ 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 Accuracy.	1
	b)	•	1
	c)	What is random error in pharmaceutical analysis?	1
	d)		1
	e)	Define pH.	1
	f)	Give two examples of mixed indicator.	1
	g)	Give two example of redox indicator.	1
	h)	What is solubility product?	1
	i)	Define complexation.	1
	j)	What is meant by protophillic solvent?	1
	k)	What is super saturation?	1
	1)	What is Normality?	1
	m) What are the solvents used in non-aqueous solvent?	1
	n)	Mention the types of argentometric titration.	1
		Attempt any four questions from Q-2 to Q-8	
Q-2		Attempt all questions	(14)
	a)	Write a note on acid-base theories and explain bronsted-lowry theory in detail.	7
	b)	Write a descriptive note on theory and choice of indicators	7
Q-3		Attempt all questions	(14)
~ ~	a)	Classify error. Describe the methods to minimize error.	7
	b)	What is the different modes to express concentration in pharmaceutical analysis.	7
	~,	Write in brief about the scope of pharmaceutical analysis.	•



Q-4		Attempt all questions	(14)
	a)	Describe the hydrolysis of salt of a strong acid and weak base.	7
	b)	What is buffer, derive Henderson-hesselblach equation.	7
Q-5		Attempt all questions	(14)
	a)	Write a note on volhard's method with example of titration of atleast one salt.	7
	b)	Differentiate Iodometry and Iodimetry. Write in short about fajan's method.	7
Q-6		Attempt all questions	(14)
	a)	Describe the types of solvents involved in non-aqueous titration along with suitable examples. Write the advantages of non aqueous titration.	7
	b)	Write a note on leveling and differentiating solvents. Write the disadvantage of non-aqueous titration.	7
Q-7		Attempt all questions	(14)
•	a)	Write a note on complexometric titration involving EDTA.	7
	b)	Differentiate masking and demasking agents. Write the types of complexometric titration with the examples of indicators.	7
Q-8		Attempt all questions	(14)
	a)	Discuss the steps involved in gravimetric analysis	7
	b)	Differentiate co-precipitation and post-precipitation. Mention von-Weimar equation.	7

