

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. SEMESTER – III (OLD Syllabus)• EXAMINATION – SUMMER • 2015

Subject Code: 230004

Date: 12-06-2015

Subject Name: Pharmaceutical Analysis-I

Time: 02:30 pm - 05:30 pm

Total Marks: 80

Instructions:

- 1. Attempt any five questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

Q.1	(a)	Enumerate areas of application of acid-base buffers. Derive Henderson-Hasselbach equation for finding pH of buffer solution.	06
	(b)	Write a note on common ion effect.	05
	(c)	Briefly explain the redox indicators.	05
Q.2	(a)	Write short note on Karl fischer titration.	06
	(b)	Explain theory of multiple solvent extraction.	05
	(c)	Give detail note on continuous extractions.	05
Q.3	(a)	Explain terms 1. Accuracy 2. Primary standard substance 3.Back titration 4.Error 5. LOD 6.LOQ	06
	(b)	Write detail note on Volhard method of argentometric titration	05
	(c)	Write note on theory of acid base indicators	05
Q.4	(a)	Give the importance of quality control and quality assurance in formulation analysis.	06
	(b)	Give preparation and standardization of 0.1 N Perchloric acid.	05
	(c)	Write short note on Mohr's method	05
Q.5	(a)	Give a detailed account of calibration and cleaning of glass wares	06
	(b)	Explain non aqueous solvent with example.	05
	(c)	Discuss merits and Demerits of non-aqueous titration over aqueous titration.	05
Q. 6	(a)	Write a note on Iodometric titration.	06
	(b)	Types of complexometric titrations. Masking and demasking complexometric titration.	05
	(c)	Write note on cerrimetry	05
Q.7	(a)	Write note on sampling techniques.	06
	(b)	What is gravimetric analysis? Enlist the steps involved in gravimetric analysis.	05
	(c)	Give a detailed account of Oxygen combustion flask method.	05
