Seat No.:	Enrolment No
<b>GUJARAT TECHNOI</b>	OGICAL 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.

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

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