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## **GUJARAT TECHNOLOGICAL UNIVERSITY**

B. Pharm. - SEMESTER-3 • EXAMINATION – SUMMER -2018

Subject Code: 230004	Date: 07/05/2018
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Subject Name: Pharmaceutical Analysis - I

Time: 02:30 PM TO 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)	Enlist the different type of complexometric titration.  Explain replacement type of complexometric titration in detail with suitable	06
	<b>(b)</b>	examples.  What is analytical method validation? Enlist validation parameter. Discuss any two parameters in detail.	05
	(c)	Explain masking and demasking in complexometry.	05
Q.2	(a)	Enumerate areas of application of acid-base buffers.  Derive Henderson-Hasselbach equation for finding pH of buffer solution	06
	<b>(b)</b>	Discuss Merits and Demerits of non aqueous titration over aqueous titration	05
	<b>(c)</b>	Explain indicators in complexometric titration?	05
Q.3	(a)	Describe in detail about gravimetric method of Analysis	06
	<b>(b)</b>	Define redox titration. Write a note on potassium permanganate titration	05
	(c)	Write note on theory of acid base indicators	05
Q.4	(a)	What is error? Classify the error and how will you minimize the error?	06
	<b>(b)</b>	Briefly explain the redox indicators.	05
	(c)	Give preparation and standardization of KMnO <sub>4</sub>	05
Q.5	(a)	Enlist the end point detection methods in precipitation titration. Explain fajan's method in detail.	06
	<b>(b)</b>	Explain in detail about Mohr's method.	05
	(c)	Differentiate Iodometric and Iodimetric titrations.	05
Q. 6	(a)	Give the importance of quality control and quality assurance in formulation analysis.	06
	<b>(b)</b>	Give a detailed account of calibration and cleaning of glass wares	05
	(c)	Write a note on common ion effect.	05
Q.7	(a)	Write note on cerrimetry	06
	<b>(b)</b>	Explain about sampling techniques.	05
	(c)	Write a brief note on neutralization curve.	05

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