## Seat No.: \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. SEMESTER – II.	<b>EXAMINATION – SUMMER - 2016</b>
Subject Code:2220003	Date: 06/06/2016

**Subject Name: Pharmaceutical Analysis-II** 

Time:10:30 AM to 1:30 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 Q.2	(a) (b) (c) (a)	Write note on signal to noise ratio. Discuss the factor which influences efficiency of column in chromatography. Describe in detail van Deemeter equation and terms in it.  Explain following terminology-  1. Specific conductance 2. Equivalent conductivity 3. Retention time 4. Standard electrode potential 5. Robustness 6. Validation	06 05 05 06
Q.3	(b) (c) (a) (b) (c)	Give statement of kohlrausch's law and its application.  Describe factor affecting conductance.  Write note on NPP and DPP.  Classify the instrumental method. Explain its merits and demerits.  Explain following term in detail  a. Migration current  b. Diffusion current	05 05 06 05 05
Q.4	(a) (b) (c)	What is stripping voltammetry? Explain in detail any two technique. Give ideal properties of reference electrode. Write note on SCE. Discuss method of detecting end point by potentiometry titration.	06 05 05
Q.5	(a) (b) (c)	Describe instrumentation of TGA.  Discuss various development technique of paper chromatography.  Explain the application of DSC in detail.	06 05 05
Q. 6	(a) (b) (c)	Write note on gasometric method.  Explain instrumentation of polarimetry.  Give difference between optically active and optically inactive compound.	06 05 05
Q.7	(a) (b) (c)	Write note on continuous extraction.  Describe theory of extraction.  Write note on biamperometry titration.	06 05 05

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