Seat No.: _____ Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. SEMESTER – II. EXAMINATION – SUMMER - 2016

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

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