Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BPHARM – SEMESTER II • EXAMINATION – WINTER • 2016

Subject Code: 2220003 Date: 04-01-2017

Subject Name: Pharmaceutical Analysis-II

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)	Discuss the advantages, disadvantages and limitation of instrumental method of analysis.	06
	(b) (c)	Describe in detail Van Deemeter equation and terms in it. Write note on signal to noise ratio.	05 05
Q.2	(a) (b) (c)	What is stripping voltammetry? Explain in detail any two technique. Discuss method of detecting end point by potentiometry titration. Give ideal properties of reference electrode. Write note on SCE.	06 05 05
Q.3	(a) (b) (c)	Discuss various development technique of paper chromatography. Discuss the factor which influences efficiency of column in chromatography. Discuss the principle, methodology and applications of TLC.	06 05 05
Q.4	(a) (b) (c)	Discuss the principle of pH metry Give statement of kohlrausch's law and its application. Describe factor affecting conductance.	06 05 05
Q.5	(a) (b) (c)	Describe instrumentation of TGA. Explain the application of DSC in detail Write note on gasometric method.	06 05 05
Q. 6	(a) (b) (c)	Explain instrumentation of polarimetry. Give difference between optically active and optically inactive compound. Describe the oxygen combustion flask method.	06 05 05
Q.7	(a) (b) (c)	Write a note on single extraction technique. Describe theory of extraction. Write note on biamperometry titration	06 05 05
