Seat No.:	Enrolment No.

## GUJARAT TECHNOLOGICAL UNIVERSITY B. Pharm. – SEMESTER – IV • EXAMINATION – WINTER 2013

Subje	abject Code: 240004 Date: 03-12-2013 abject Name: Pharmaceutical Analysis - II me: 02.30 pm - 05.30 pm Total Marks: 80 structions:			
Γime:				
nstru	1. 2.	Atte Mak	mpt any five questions. The suitable assumptions wherever necessary. There so the right indicate full marks.	
Q.1		(a) (b) (c)	Write a note on plate and rate theory of chromatographic seperation. Define chromatography and classify them. Write a note on paper chromatography.	06 05 05
Q.2		(a) (b) (c)	Write a note on Ilkovic equation. Write a note on TLC. Describe pharmacopoeial applications of column chromatography and TLC.	06 05 05
Q.3		(a) (b) (c)	Explain validation, signal to noise ratio. Write advantages and disadvantages of instrumental methods of analysis.  Describe factors affecting on conductance.  Write note on conductometric titrations.	06 05 05
Q.4		(a) (b) (c)	Write a note on differential pulse polarography (DPP). Discuss amperometric titration. Write a note on dropping mercury electrode (DME).	06 05 05
Q.5		(a) (b) (c)	Discuss detail note on polarogram. Write a note on thermogravimetric analysis. Write a note on differential scanning calorimetry.	06 05 05
Q. 6		(a) (b) (c)	Describe a note on polarimeter.  Describe characteristic of an ideal reference electrode used in potentiometry. Write note on glass electrode.  Discuss note on pHmetry.	06 05 05
Q.7		(a) (b) (c)	Write the factors which affects efficiency of column in chromatography. Discuss potentiometric titration with suitable example.  Enlist various electrochemical methods. Explain equivalent conductance, molar conductance. Write note on conductivity cell.  **********************************	06 05 05