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GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm. - SEMESTER-II - EXAMINATION - SUMMER-2017

Subject Code: 2220003 Date: 05/06/2017

Subject Name: Pharmaceutical Analysis II

Time: 10:30 AM to 01:30 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)	Explain the following terminology (Any three)	06
	(b) (c)	(i) Chromatography (ii) Resolution (iii) Capacity factor (iv) Dead time Describe classification of chromatography. Explain in detail van Deemeter equation.	05 05
Q.2	(a) (b) (c)	Describe the oxygen combustion flask method. Describe advantages and limitation of instrumental method of analysis. What are electroanalytical methods? Explain classification of electroanalytical methods.	06 05 05
Q.3	(a) (b) (c)	Explain the following terminology (Any three) (i) Validation (ii) Equivalent conductance (iii) Conductivity cell (iv) Gasometric method. Discuss factors affecting conductance. Explain different types of conductometric titration.	06 05 05
Q.4	(a) (b) (c)	Write the principle, working and limitations of Glass electrode. Discuss method of detecting end point by potentiometry titration. Enlist different reference electrode used in potentiometer and explain any one in detail.	06 05 05
Q.5	(a) (b) (c)	Explain the following terminology (Any three) (i) Signal to noise ratio (ii) Limiting current (iii) Residual current (iv) Specific rotation Discuss Biamperometric titration. Describe normal pulse polarography and differential pulse polarography.	06 05 05
Q. 6	(a) (b) (c)	Define Extraction. Write a note on continuous extraction. What is calorimetry? Describe principle and instrumentation of TG method. Write a note on DSC.	06 05 05
Q.7	(a) (b) (c)	Write a note on paper chromatography. Write a note on Dropping mercury electrode. Explain principle and instrumentation of polarimetry.	06 05 05
