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## **GUJARAT TECHNOLOGICAL UNIVERSITY**B. Pharm - SEMESTER- IV - EXAMINATION - SUMMER-2017

Subject Code: 240004 Date: 02/05/2017

Subject Name: Pharmaceutical Analysis-II

Time: 02:30 PM to 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) (b) (c)	Define S/N ratio. Explain source of noise in instrumental analysis. Enlist advantage and limitation of instrumental analytical method. Define following term: Robustness, Retention time, Equivalent conductance, Standard electrode potential, Validation.	06 05 05
Q.2	(a) (b) (c)	Discuss the factor which influences efficiency of column in chromatography. Write a note on theory of chromatographic separation.  Describe various development technique of paper chromatography.	06 05 05
Q.3	(a) (b) (c)	Explain Kohlrausch's law. Give application of Kohlrausch's law.  1. Classify electroanalytical method.  2. Explain factor affecting conductance on effect of dilution.  Write a note on Ilkovic equation.	06 05 05
Q.4	(a) (b) (c)	Explain in detail SHE with merits and demerits.  Write note on method of detecting end point of potentiometric titration in detail.  Discuss the principle of pH metry.	06 05 05
Q.5	(a) (b) (c)	Write in detail about dropping mercury electrode. Write short note on stripping voltammetry. Enumerate various pulse polarography techniques. Explain in detail about DPP.	06 05 05
Q. 6	(a) (b) (c)	Define calorimetry. Differentiate between DSC and DTA. Discuss in detail principle of TGA with application. Write short note on biamperometric titration.	06 05 05
Q.7	(a) (b) (c)	Explain difference between optically active and optically inactive compound.  Describe note on polarimeter.  Explain any one retention mechanism of chromatography in detail.	06 05 05

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