**(b)** 

**(c)** 

## GUJARAT TECHNOLOGICAL UNIVERSITY B.Pharm. - SEMESTER- II • EXAMINATION - WINTER -2018

Subject Code: 2220003 Date: 11/1 Subject Name: Pharmaceutical Analysis-II			Date: 11/12/2018	2/2018	
Time Instru 1. 2.	e: 02: actions Atte Mak	:30 PM TO 05:30 PM	Total Marks: 80		
Q.1	(a) (b) (c)	Explain the principle, application and types of paper chroma Write a short note on Thin Layer chromatography. Briefly explain Retention mechanisms involved in chromato		06 05 05	
Q.2	(a) (b) (c)	Comment on the following statements: i) Potassium chloride is preferred in salt bridge. ii) Conductance of HCl in non-polar solvent is higher than conductance of HCl in polar solvent. iii) Separation efficiency is independent of number of plates. Write a detailed note on Conductometric titrations. Describe factor affecting conductance.		06 05 05	
Q.3	(a) (b) (c)	What is emf. Classify electrode and what are the idea indicator electrode.  Discuss the applications of potentiometry.  Define Reference electrode. Enlist the types of it and write calomel.	7.		
Q.4	(a) (b) (c)	Describe principle, working and applications of Polarimetry. Write a short note on Biamperometric titration. Give difference between optically active and optically inacti	on Biamperometric titration.		
Q.5	(a) (b) (c)	Describe instrumentation of TGA. Discuss the advantages, disadvantages and limitation of instranalysis. Explain the application of DSC in detail.	tages and limitation of instrumental method of 0		
Q. 6	(c) (a) (b) (c)	Define validation. Enlist parameters of analytical methexplain the source of noise in instrumental analysis.  Describe multiple extraction technique. How pH affect edrugs.  Discuss the theory of extraction.	of analytical method validation and that analysis.  e. How pH affect extractability of the		
Q.7	(a)	Write note on NPP and DPP.		05 06	

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What is stripping voltammetry? Explain in detail any two techniques.

Describe the oxygen combustion flask method.

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