

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. SEMESTER– II• EXAMINATION – SUMMER - 2018

Subject Code:2220003**Date:22/05/2018****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)	Discuss the principle, methodology and applications of TLC	06
	(b)	What is the difference between biamperometric and amperometric titrations? Discuss the advantages and applications of amperometric titration	05
	(c)	Discuss the principle of pH metry	05
Q.2	(a)	Write a detail note on Conductometric titrations.	06
	(b)	Write a note on column chromatography	05
	(c)	What is emf. Classify electrode and what are the ideal characteristics of indicator electrode.	05
Q.3	(a)	Discuss the advantages, disadvantages and limitation of instrumental method of analysis.	06
	(b)	Explain the principle, working and limitations of Glass electrode	05
	(c)	Comment “Conductance of HCl in non-polar solvent is higher than Conductance of HCl in polar solvent	05
Q.4	(a)	Discuss various development technique of paper chromatography	06
	(b)	Discuss the applications of potentiometry	05
	(c)	Give ideal properties of reference electrode. Write note on SCE.	05
Q.5	(a)	What is DSC? Write the application of DSC	06
	(b)	What is stripping voltammetry? Explain in detail any two technique.	05
	(c)	Write a short note on Biamperometric titration	05
Q. 6	(a)	Write a note on differential thermal analysis	06
	(b)	Write note on signal to noise ratio. Explain the source of noise in instrumental analysis.	05
	(c)	Discuss the factor which influences efficiency of column in chromatography.	05
Q.7	(a)	What is calorimetry? Describe in detail thermogravimetric analysis	06
	(b)	Describe multiple extraction technique. How pH affect extractability of the drugs.	05
	(c)	Describe any one continuous extraction method.	05
