

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Pharm – SEMESTER I – • EXAMINATION – SUMMER -2018

Subject Code:BP102TP**Date: 03/05/2018****Subject Name: Pharmaceutical Analysis - I****Time:02:30 PM – 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) Explain different methods of expressing concentration.	06
	(b) Explain different types of error. How will you minimize the errors?	05
	(c) Explain in detail Volhard's method of precipitation.	05
Q.2	(a) Discuss briefly various sources of impurities in medicinal agents.	06
	(b) Describe preparation and standardization of 0.1M sodium thiosulphate solution.	05
	(c) What is primary standard compound? Explain ideal requirements of primary standard compound.	05
Q.3	(a) Explain co-precipitation and post-precipitation.	06
	(b) What is gravimetric analysis? Discuss steps involved in gravimetric analysis.	05
	(c) Explain basic principle of non-aqueous titration. Write the name of titrants and indicators used in non-aqueous titration.	05
Q.4	(a) Explain Diazotization titration in detail.	06
	(b) Enlist different types of redox titrations. Describe iodine methods in detail.	05
	(c) Enlist different end point detection method used in redox titration. Discuss them.	05
Q.5	(a) Discuss applications of acid base titration.	06
	(b) Explain theories of acid base indicator.	05
	(c) Explain titration curve for the salt of weak base & strong acid.	05
Q. 6	(a) Write a note on conductometric titrations.	06
	(b) Enlist different reference electrode used in potentiometry. Explain Saturated Calomel Electrode.	05
	(c) Explain methods to determine end point in potentiometric titrations.	05
Q.7	(a) Explain masking and demasking in complexometry.	06
	(b) Describe Dropping Mercury Electrode.	05
	(c) Explain different types of EDTA titrations. What are the ideal requirements of metal ion indicators?	05
