

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER-VI • EXAMINATION – SUMMER-2016

Subject Code: 2260003

Date: 05/05/2016

Subject Name: Pharmaceutical Analysis IV

Time: 10:30 AM to 1:30 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) Write a short note on Affinity chromatography. | 06 |
| | (b) Explain principle, procedure and application of HPTLC. | 05 |
| | (c) Write a short note on supercritical fluid chromatography. | 05 |
| Q.2 | (a) Explain instrumentation and application of Gas chromatography. | 06 |
| | (b) Give a brief note on GC-MS. | 05 |
| | (c) Differentiate between HPLC & GC. | 05 |
| Q.3 | (a) Explain Bragg's law. Explain different method for x-ray diffraction study. | 06 |
| | (b) Explain application of x-ray diffraction study. | 05 |
| | (c) Write a short note on GLP. | 05 |
| Q.4 | (a) Explain principle and application of HPLC. | 06 |
| | (b) Give brief account on HPLC instrumentation. | 05 |
| | (c) Write a note on GATT & TRIPS. | 05 |
| Q.5 | (a) Differentiate Raman spectroscopy and IR spectroscopy. Write a note on Raman spectroscopy. | 06 |
| | (b) Write a note on Ion exchange chromatography. | 05 |
| | (c) Write note on Gel permeation chromatography. | 05 |
| Q. 6 | (a) Write a note on ISO. | 06 |
| | (b) Explain the steps involved in filing patent. | 05 |
| | (c) Explain principle, methodology and application of ELISA. | 05 |
| Q.7 | (a) Write a note on RIA. | 06 |
| | (b) Discuss various parameters of analytical method validation. | 05 |
| | (c) Write a brief note on nephelometry. | 05 |
