

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. Semester – IIND Examination – June/July- 2011

Subject code: 920107

Subject Name: Pharmaceutical Analysis -II

Date: 01/07/2011

Time: 10:30 am – 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.

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|-------------|------------|--|-----------|
| Q.1 | (a) | What is amino acid sequence analysis? What is its importance? Describe one method of amino acid sequence analysis. | 09 |
| | (b) | Discuss hydrophobic interaction chromatography | 07 |
| Q.2 | (a) | Explain the principle, instrumentation overview and application of LC-MS in drug metabolism. | 09 |
| | (b) | Describe sample preparation techniques from biological samples. | 07 |
| Q.3 | (a) | What is the importance of forced degradation study? Discuss forced degradation study with suitable examples. | 09 |
| | (b) | Discuss impurities in drug products according to ICH guideline. | 07 |
| Q.4 | (a) | Explain principle and procedure for quantitative analysis of dosage form of analgesics and antipyretics. | 08 |
| | (b) | Describe isolation and identification techniques for impurities. | 08 |
| Q.5 | (a) | Discuss the extraction and identification of plant constituent by chromatographic techniques. | 10 |
| | (b) | Describe WHO guideline for Q.C. of raw materials used in herbal formulation. | 06 |
| Q. 6 | (a) | Explain principles of automation and discuss flow injection analysis. | 10 |
| | (b) | Describe preparation of drug samples for analysis. | 06 |
| Q.7 | | Write short note on the following (Any two) | 16 |
| | | a) GC-MS | |
| | | b) Tryptic mapping | |
| | | c) Supercritical fluid chromatography | |
