

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M. PHARM. - SEMESTER– II EXAMINATION – SUMMER- 2016

Subject Code: 1921501

Date: 19/05/2016

Subject Name: Modern Pharmaceutical Analysis

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.**

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|------------|--|-----------|
| Q.1 | (a) Explain in detail Amino Acid Sequence Analysis. | 06 |
| | (b) Explain Iso-Electric Focusing technique for protein analysis. | 05 |
| | (c) Give a Brief note on Tryptic Mapping. | 05 |
| Q.2 | (a) Write a note on ICH Guidelines. | 06 |
| | (b) Discuss in detail sterility testing of Parenteral dosage form. | 05 |
| | (c) Explain Impurity Analysis in detail. How it will affect on stability of drug product? | 05 |
| Q.3 | (a) Explain in detail importance of preformulation study with suitable example. | 06 |
| | (b) Explain properties associated with molecular level for solid state analysis. | 05 |
| | (c) Explain role of chromatography in amino acid analysis. | 05 |
| Q.4 | (a) Write a brief note on US-FDA. | 06 |
| | (b) Explain in detail analysis of shampoo. | 05 |
| | (c) Explain solid state analysis at particulate level with suitable examples. | 05 |
| Q.5 | (a) Write a note on analytical techniques for analysis of solid dosage form. | 06 |
| | (b) Explain the different stages of preformulation study. Describe Physicochemical and Thermodynamic properties of preformulation study of solid dosage form. | 05 |
| | (c) Write a note on analysis of cosmetics. | 05 |
| Q.6 | (a) Write a note on bio-burden testing. | 06 |
| | (b) Enlist methods for biotechnological products. Explain any one in detail. | 05 |
| | (c) Write a note on Compendial testing for herbal formulation. | 05 |
| Q.7 | Write a note on following: (Any Two)
a) Compendial Testing for pharmaceuticals.
b) Automated Analysis
c) Quality Control test for Analysis of Radio-Pharmaceuticals | 16 |
