

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm. – SEMESTER – II • EXAMINATION – SUMMER 2013

Subject Code: 2920104

Date: 23-05-2013

Subject Name: Modern Pharmaceutical Analysis

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.**

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|-------------|--|-----------|
| Q.1 | (a) Describe the spectrophotometric and pH metric methods of pKa determination. | 08 |
| | (b) What are the concepts of solubility? Outline two methods for determination of solubility of solid in liquid. | 08 |
| | | |
| Q.2 | What are cosmetics? Discuss in detail evaluation of various cosmetic preparations. | 16 |
| | | |
| Q.3 | (a) Enlist WHO guideline for QC standards of medicinal plant materials. Describe any two. | 08 |
| | (b) Explain various pharmacopoeia tests for analysis of API. | 08 |
| | | |
| Q.4 | (a) Which are the test for quality control of parenteral preparation? Describe bioburden test. | 08 |
| | (b) How do impurities affect quality of drug formulation? Discuss stability study requirements for new Drug substance and Drug products as per ICH guideline. | 08 |
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| Q.5 | (a) Explain concept and objectives of automated analysis? | 08 |
| | (b) Write not on PAT. | 08 |
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| Q. 6 | (a) Write note on sterility testing. | 08 |
| | (b) Discuss types and major steps of styptic mapping. | 08 |
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| Q.7 | (a) Explain briefly techniques of physicochemical characterization of solid oral dosage form. | 08 |
| | (b) Enlist quality control standards for radiopharmaceuticals. Compare ELISA and RIA. | 08 |
