

Seat No.: _____

Enrolment No: _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm. – SEMESTER – III • EXAMINATION – SUMMER • 2015

Subject Code: 930107

Date: 13-05-2015

Subject Name: Pharmaceutical and Cosmetic 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) What is SPE? Explain extraction of drug from biological fluid by SPE. | 06 |
| | (b) Describe various factors affecting extraction of drug from human plasma. | 05 |
| | (c) Describe quality control tests for skin care products. | 05 |
| Q.2 | (a) Discuss BIS standard for sampling and testing of finished cosmetics. | 06 |
| | (b) Write a note on analysis of shampoo. | 05 |
| | (c) Write about the methods of analysis to determine the quality of dental products. | 05 |
| Q.3 | (a) Describe analysis of preservatives in cosmetic products. | 06 |
| | (b) Discuss the physical stability testing of disperse systems. | 05 |
| | (c) Describe various photolytic reactions in drug decomposition. Discuss the methods for its prevention. | 05 |
| Q.4 | (a) Briefly explain identification and quantitative determination of colourants in pharmaceutical formulation. | 08 |
| | (b) Write a note on general methods of analysis to determine the quality of raw materials for cosmetic preparation. | 08 |
| Q.5 | (a) Discuss stability study design for solid dosage forms. | 08 |
| | (b) Describe microbial decomposition with examples. | 08 |
| Q. 6 | (a) Write a note on accelerated stability study. | 08 |
| | (b) Describe cases for instability of emulsions. | 08 |
| Q.7 | (a) Explain kinetics of decomposition? How it is determined. Describe solid state decomposition of drugs with examples. | 06 |
| | (b) Give the methods for analysis of Ethnic products. | 05 |
| | (c) Write about analytical methods for analysis of Eye shadow. | 05 |
