

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm SEMESTER III EXAMINATION – SUMMER-2016

Subject Code: 930107**Date: 27/05/2016****Subject Name: Pharmaceutical and Cosmetic Analysis****Time: 2:30 PM to 5:30 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) | Discuss drug decomposition by hydrolysis and acyltransfer mechanism. | 06 |
| | (b) | Write note on energetic and kinetic of photolysis. | 05 |
| | (c) | Discuss microbial decomposition of drugs and drug products. | 05 |
| Q.2 | (a) | Write drug -excipient and drug-drug interaction in solid state. | 06 |
| | (b) | Discuss drug decomposition by oxidation. | 05 |
| | (c) | Write the physical stability testing for powder and granules. | 05 |
| Q.3 | (a) | Describe physical stability of liposomes and neosomes. | 06 |
| | (b) | Discuss selection of biological sample and extraction of drugs by liquid-liquid extraction techniques. | 05 |
| | (c) | What is SPE? Explain extraction of drug from biological fluid by SPE. | 05 |
| Q.4 | (a) | Explain quantative determination of emulsifiers and stabilizers in pharmaceutical formulations. | 06 |
| | (b) | Describe analysis of preservative in cosmetic products. | 05 |
| | (c) | Write a note on safety and legislation of cosmetic products. | 05 |
| Q.5 | (a) | Describe about instability of emulsions. | 06 |
| | (b) | Describe factors affecting extraction of drug from biological samples. | 05 |
| | (c) | Write methods of analysis to determine quality of raw material for cosmetic preparation. | 05 |
| Q. 6 | (a) | Write BIS standards for sampling and testing of finished cosmetics. | 06 |
| | (b) | Discuss methods of analysis of dental products. | 05 |
| | (c) | Write quality control test for skin care products. | 05 |
| Q.7 | (a) | Describe method of analysis of ethnic products. | 06 |
| | (b) | Write a note on analysis of shampoo. | 05 |
| | (c) | Write short note on toxicity testing in cosmetic. | 05 |
