

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

Subject Code: 930107**Date: 23/11/2016****Subject Name: Pharmaceutical and Cosmetic Analysis****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) | Discuss the oxidation mechanism for degradation of drug and how it helpful to improve stability. | 06 |
| | (b) | Describe stability testing of capsules | 05 |
| | (c) | Discuss the drug-drug interaction with suitable examples. | 05 |
| Q.2 | (a) | Discuss about microbial decomposition. | 06 |
| | (b) | What is kinetic study? Discuss the photolytic degradation. | 05 |
| | (c) | Write in brief about physical stability liposomes | 05 |
| Q.3 | (a) | What is antioxidant? Discuss quantitative determination of antioxidants. | 06 |
| | (b) | Describe identification test for preservatives and stabilizers. | 05 |
| | (c) | Write a note on quality control test for ethnic products. | 05 |
| Q.4 | (a) | Discuss the solid phase extraction of drugs. What are the different factors affecting extraction. | 06 |
| | (b) | Discuss about toxicity studies in cosmetics. | 05 |
| | (c) | What is SPF? Write a quality control test of sunscreen lotion | 05 |
| Q.5 | (a) | Discuss general methods of analysis for raw material used in cosmetic industry | 06 |
| | (b) | Write about safety and legislation of cosmetics products | 05 |
| | (c) | Discuss the method of analysis of one dental product. | 05 |
| Q. 6 | (a) | Write methods of analysis for the finished cosmetics (i) Baby care products (ii) Hair lotion | 06 |
| | (b) | Write a note on quality control test for lipstick. | 05 |
| | (c) | Write a note on Indian standard specification for testing of cosmetics in finished form. | 05 |
| Q.7 | (a) | Enlist the colours used in makeup preparation and write quality control test for eye shadow. | 06 |
| | (b) | Give method of analysis for (i) Skin care product (ii) Personal hygiene products | 05 |
| | (c) | Give brief account on (i) Membrane filtration (ii) Stability of nano particles | 05 |
