

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

M. Pharm. – SEMESTER – III • EXAMINATION – WINTER • 2014

Subject Code: 930107

Date: 06-12-2014

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) | Enlist biological fluids. Describe solid phase extraction and membrane filtration technique for extraction of drug from biological fluid. | 06 |
| | (b) | Factor affecting extraction of drugs from biological samples. | 05 |
| | (c) | Discuss quality control test for colour cosmetics. | 05 |
| Q.2 | (a) | Describe drug decomposition by oxidation with suitable example. | 06 |
| | (b) | Write a note on energetic and kinetics of photolysis. | 05 |
| | (c) | Describe method of analysis for Dental products. | 05 |
| Q.3 | (a) | Describe solid state decomposition of pharmaceuticals with suitable examples. | 06 |
| | (b) | Discuss the physical stability testing for powder and granules. | 05 |
| | (c) | Write a note on physical stability of Liposomes and Niosomes. | 05 |
| Q.4 | (a) | Write qualitative and quantitative determination of colouring materials and emulsifiers. | 06 |
| | (b) | How to perform identification and quantification of antioxidants. | 05 |
| | (c) | Write a note on quality control test for ethnic products. | 05 |
| Q.5 | (a) | Write a note on Indian standard specification for testing of cosmetics in finished form. | 06 |
| | (b) | Write about safety and legislation of cosmetics products. | 05 |
| | (c) | Write a note on toxicity testing in cosmetics. | 05 |
| Q. 6 | (a) | Write note on method of analysis used to determine quality of raw materials used in cosmetics. | 06 |
| | (b) | Discuss drug excipient and drug-drug interaction in solid state with suitable example. | 05 |
| | (c) | Discuss selection of Biological sample and extraction of drugs by liquid-liquid extraction technique. | 05 |
| Q.7 | | Write methods of analysis for the following finished cosmetics | 16 |
| | a) | Baby care products | b) Lipsticks |
| | c) | Hair lotion | d) Eye shadow |
