

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VII • EXAMINATION – SUMMER • 2014

Subject Code: 270002

Date: 05-06-2014

Subject Name: Pharmaceutical Technology- I

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) Explain filling methods for parenteral products. | 06 |
| | (b) Explain mechanisms of drug penetration through skin. | 05 |
| | (c) Discuss pharmaceutical testing of aerosols. | 05 |
| Q.2 | (a) Discuss the evaluation parameters for semisolid formulations. | 06 |
| | (b) Write pharmaceutical applications of aerosols. | 05 |
| | (c) Enlist components of aerosol. Explain propellants in detail. | 05 |
| Q.3 | (a) Write a short note on suspending agents and emulsifying agents. | 06 |
| | (b) Define suspensions. Differentiate flocculated and deflocculated suspensions. | 05 |
| | (c) Define emulsions. Give types of emulsions. Write pharmaceutical applications of emulsions. | 05 |
| Q.4 | (a) Describe quality control tests for parenterals. | 06 |
| | (b) Explain various types of actuator used in aerosol. | 05 |
| | (c) Briefly explain tincture and infusion. | 05 |
| Q.5 | (a) Discuss the factors affecting drug release from semisolids. | 06 |
| | (b) Write a note on pyrogens and its testing. | 05 |
| | (c) Explain the necessitate for freeze-dried parenteral products and its processing. | 05 |
| Q.6 | (a) Explain formulation of sterile dosage forms. | 06 |
| | (b) Comment: Ophthalmic product should be used within one month after opening the cap. Write in brief on formulation of ophthalmic dosage form. | 05 |
| | (c) Write a short note on W.F.I. | 05 |
| Q.7 | (a) Give the different types of glass with their tests. | 06 |
| | (b) Write a short note on prefilled syringes. | 05 |
| | (c) Enlist official semisolid bases. Explain use of each with example. | 05 |
