

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. – SEMESTER – VII • EXAMINATION – WINTER • 2016

Subject Code: 270002

Date: 19-11-2016

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) | Write a note on pyrogens and its testing. | 06 |
| | (b) | Give the different types of glass with their tests. | 05 |
| | (c) | Describe pre-filling treatment of parenteral containers. | 05 |
| Q.2 | (a) | Write a note on Emulsifying agents & Suspending agents. | 06 |
| | (b) | Write a short note on vehicles & solvents used in liquid dosage forms. | 05 |
| | (c) | Outline manufacturing procedure of liquid orals. | 05 |
| Q.3 | (a) | Define Aerosols. Give a brief account of propellants. | 06 |
| | (b) | How will you evaluate aerosols? | 05 |
| | (c) | Write pharmaceutical applications of aerosols. | 05 |
| Q.4 | (a) | Differentiate creams, ointments and gels with their specific advantages. Write a short note on suppository bases. | 06 |
| | (b) | Discuss the evaluation parameters for semisolid formulations. | 05 |
| | (c) | Explain mechanisms of drug penetration through skin. | 05 |
| Q.5 | (a) | Discuss pharmaceutical testing of aerosols. | 06 |
| | (b) | Enlist components of aerosol. Explain propellants in detail. | 05 |
| | (c) | Describe quality control tests for parenterals. | 05 |
| Q. 6 | (a) | Discuss the factors affecting drug release from semisolids. | 06 |
| | (b) | What is significance of HLB value? Classify emulsifying agents. | 05 |
| | (c) | Differentiate S.V.P and L.V.P. | 05 |
| Q.7 | (a) | Comment: Ophthalmic product should be used within one month after opening the cap. Write in brief on formulation of ophthalmic dosage form. | 06 |
| | (b) | Write a short note on W.F.I. | 05 |
| | (c) | Enumerate evaluating parameters of emulsions. | 05 |
