

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-7 • EXAMINATION – SUMMER -2018

Subject Code: 2270002**Date: 22/05/2018****Subject Name: Pharmaceutical Technology I****Time: 02:30 PM TO 05:30 PM****Total Marks: 80****Instructions:**

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

- Q.1** (a) Give classification of Liquid dosage form. Enumerate formulation components with its use. **06**
(b) Write a note on “Solubility Enhancers” and “Vehicles”. **05**
(c) Enumerate evaluation parameters of suspensions and discuss the procedures. **05**
- Q.2** (a) Discuss i) Micro-Emulsions & ii) Multiple Emulsions. **06**
(b) Explain the mechanism of drug penetration through skin. Write a short note on permeation enhancers. **05**
(c) Discuss in brief suppository bases & classify them. **05**
- Q.3** (a) Draw well labeled diagram for aerosol packs. Explain the different parts of it. **06**
(b) Role and properties of propellants. Discuss. **05**
(c) How will you evaluate aerosols? **05**
- Q.4** (a) Define “Sterile Dosage forms” classify them. What are the ideal requirements for it? **06**
(b) Outline the design and requirements for production area of sterile products. **05**
(c) Describe freeze dried products: its production & application. **05**
- Q.5** (a) Sterility is maintained strictly in blow fill & seal technology : comment **06**
(b) “Water for Injection”. Preparation & quality control. **05**
(c) Short note on “Pre-filled syringes” **05**
- Q.6** (a) Requirement and purpose of sun-screen lotions. Categories & Classification. **06**
(b) Enlist products covered under cosmeceuticals. Explain shampoo in details. **05**
(c) What do you understand by validation? **05**
- Q.7** (a) Briefly outline schedule-M. **06**
(b) What is the importance of Documentation in GMP? **05**
(c) Write a note on “Recovery & Reprocessing.” **05**
