

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – VII • EXAMINATION – WINTER • 2014

Subject Code: 270002

Date: 27-11-2014

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.**

- Q.1** (a) Explain in brief : i) extracts ii) tincture iii) infusion iv) Gels **06**
(b) Write ideal characteristics of suspension & discuss the role of stabilizers in its stability. **05**
(c) Draw labeled layout for manufacturing of liquid dosage forms. **05**
- Q.2** (a) What are various instabilities of emulsions? Discuss them with their causes and precautions to avoid them. **06**
(b) Discuss dermatological factors affecting penetration of drugs. **05**
(c) Classify additives used in liquid dosage forms. Discuss the preservatives. **05**
- Q.3** (a) Write a detail note on problems with their remedies in formulating suppositories. **06**
(b) Write importance of i). Buffers ii). Viscosity enhancers **05**
iii) Isotonicity in ophthalmic products.
(c) Define ointment. Discuss different types of ointment bases with suitable examples. **05**
- Q.4** (a) Describe in detail quality control for pharmaceutical aerosols products. **06**
(b) Write a note on cold filling manufacturing procedure for aerosol with labeled diagram. **05**
(c) Explain the following : i) Meter dose inhaler ii) propellant **05**
iii) Aerosols product concentrates.
- Q.5** (a) Describe in detail parenteral nutrition formulations. **06**
(b) Write a short note on FFS technology applied in parenterals. **05**
(c) Write a note on washing of vials. **05**
- Q. 6** (a) How are the aseptic area maintained & monitored? **06**
(b) Write a short note on lyophilisation of parenteral formulations. **05**
(c) Discuss various solvents & vehicles used in parenteral preparations. **05**
- Q.7** (a) Discuss evaluation tests for ophthalmic preparations. **06**
(b) Discuss in brief the evaluation tests for ointment. **05**
(c) Write a note on water for injection-Preparation & its quality control. **05**
