

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.PHARM – SEMESTER – VII • EXAMINATION – WINTER – 2015

Subject Code: 2270016

Date: 16/12/2015

Subject Name: Innovations in Conventional Drug Delivery System

Time: 10.30 AM to 1.30 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) Classify different types of osmotic pumps. Discuss any one in detail. **06**
(b) What are biodegradable polymers? Give the applications of biodegradable polymers. **05**
(c) What are the basic components of osmotic drug delivery system? **05**
- Q.2** (a) Give the significance of fast dispersible tablet. Give the techniques used in preparation of fast dispersible tablet. **06**
(b) What is mucoadhesion? Describe different mechanisms of bioadhesion. **05**
(c) Enlist various approaches for taste masking. Explain any one approach with examples. **05**
- Q.3** (a) Discuss the merits and demerits of sublingual dosage forms. How are they evaluated? **06**
(b) Enlist recent innovations in advances in capsules. Describe any one in detail. **05**
(c) Write a note on pulsincap Technology. **05**
- Q.4** (a) Explain the innovation in pelletization processes. **06**
(b) What is in-situ gel? Discuss various approaches of in-situ gelation. **05**
(c) What is liposome? Enlist the material used for preparation of liposome. Write about any one method of preparation. **05**
- Q.5** (a) Write a note on prefilled syringe technology for injection formulations. **06**
(b) Write a note on needle free injection technology. **05**
(c) Write a note on erodible occusert. **05**
- Q. 6** (a) Discuss the limitations of conventional ocular dosage forms. **06**
(b) Write a note on innovations in powder aerosols drug delivery. **05**
(c) Describe the recent innovations in liquid solution. **05**
- Q.7** (a) Enlist types of innovation in liquid dosage form. Discuss pharmaceutical applications of nanoemulsion. **06**
(b) What is microemulsion? Give the evaluation methods for microemulsion. **05**
(c) Describe various methods for preparation of nanosuspension. **05**
