

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.Ph. - SEMESTER- VII• EXAMINATION – SUMMER -2018**Subject Code:2270016****Date: 01/06/2018****Subject Name: Innovations in Conventional Drug Delivery System****Time: 02:30PM TO 05:30PM****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) What are biodegradable polymers? Give the applications of biodegradable polymers. **06**
(b) What are the basic components of osmotic drug delivery system? **05**
(c) Give the significance of fast dispersible tablet. Give the techniques used in preparation of fast dispersible tablet. **05**
- Q.2** (a) Discuss the merits and demerits of sublingual dosage forms. How are they evaluated? **06**
(b) Explain the innovation in pelletization processes. **05**
(c) Enlist recent innovations in advances in capsules. Describe any one in detail. Write a note on pulsincap Technology. **05**
- Q.3** (a) What is liposome? Enlist the material used for preparation of liposome. Write about any one method of preparation. **06**
(b) Different between liposome and niosome. **05**
(c) Write a note on prefilled syringe technology for injection formulations. **05**
- Q.4** (a) Write a note on needle free injection technology. Write a note on erodible occusert. **06**
(b) Enlist types of innovation in liquid dosage form. Discuss pharmaceutical applications of nanoemulsion. **05**
(c) Discuss the limitations of conventional ocular dosage forms. Write a note on innovations in powder aerosols drug delivery. Describe the recent innovations in liquid solution. **05**
- Q.5** (a) Enlist types of innovation in suspension. Discuss pharmaceutical applications of nanosuspension. **06**
(b) What is microemulsion? Give the evaluation methods for microemulsion. **05**
(c) Describe various methods for preparation of nanosuspension. **05**
- Q. 6** (a) Explain innovations in aerosols drug delivery. **06**
(b) Explain innovations in ophthalmic drug delivery. **05**
(c) Explain innovations in semisolids. **05**
- Q.7** (a) Explain orodispersible tablet in details. **06**
(b) Explain innovation in capsule shell materials. **05**
(c) Explain innovations in parenterals drug delivery system. **05**
