

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B.PHARM - SEMESTER- 7 EXAMINATION – SUMMER -2019

Subject Code: 2270016**Date: 20-05-2019****Subject Name: Innovations in Conventional Drug Delivery System****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 advantages and disadvantages of Fast Dispersible Tablet. How are they evaluated? **06**
(b) Write a note on sublingual tablet. **05**
(c) Discuss the polymers used in formulation of matrix tablet. **05**
- Q.2** (a) Write a note on orodispersible tablet. **06**
(b) Describe in detail innovation made in capsule shell. **05**
(c) Discuss different fill materials for Hard Gelatin Capsule. **05**
- Q.3** (a) Classify different types of osmotic pumps. Discuss any one in detail. **06**
(b) Write a note on novel ophthalmic semisolid preparations. **05**
(c) What are biodegradable polymers? Give the applications of biodegradable polymers. **05**
- Q.4** (a) Enumerate different methods of Pelletization. Discuss any one method in detail. **06**
(b) Discuss the recent innovations in parenteral packaging. **05**
(c) Explain in detail needle free injection technology. **05**
- Q.5** (a) Classify the ophthalmic innovative formulations. Write its merits against conventional dosage form. **06**
(b) Describe various methods for preparation of nanosuspension. **05**
(c) Describe the innovations in powder aerosols drug delivery. **05**
- Q. 6** (a) Explain in detail innovation in liquid dosage form. **06**
(b) Describe recent innovations in semi-solid dosage forms. **05**
(c) What is microemulsion? Give the evaluation methods for microemulsion. **05**
- Q.7** (a) Write a note on prefilled syringe technology for injection formulations. **06**
(b) Write a note on pressurized metered dose inhalers. **05**
(c) Define pellets. Discuss the innovations in pelletization technologies. **05**
