

Seat No.: _____

Enrolment No. _____

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

Subject Code: 2270016**Date: 28-11-2019****Subject Name: Innovations in Conventional Drug Delivery System****Time: 10:30AM TO 01:30PM****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) Give the significance of fast dispersible tablet. Give the techniques used in Preparation of fast dispersible tablet. **06**
(b) Write a detailed note on non-animal capsule shells. **05**
(c) Discuss various methods for parenteral DEPOT formulations. **05**
- Q.2** (a) Write a note on needle free injection technology. Write a note on erodible occusert. **06**
(b) Explain the recent innovations in Parenteral packaging. **05**
(c) Classify glass containers. Describe the evaluation tests for suitability of glass Containers. **05**
- Q.3** (a) Write a note on innovations in powder aerosols drug delivery. **06**
(b) Explain in detail innovation in liquid dosage form. **05**
(c) Write a note on port capsule technology. **05**
- Q.4** (a) Define pellets. Discuss the innovations in pelletization technologies. **06**
(b) Explain the various strategies employed in taste masking of drugs. **05**
(c) Discuss novel technology in implants. **05**
- Q.5** (a) What are hydrogels? Discuss the approaches to control drug delivery using hydrogels. **06**
(b) Describe the methods to determine the mucoadhesive property of formulations. **05**
(c) What is in-situ gel? Discuss various approaches of in-situ gelation. **05**
- Q.6** (a) Describe various methods for preparation of nanosuspension. **06**
(b) What is liposome? Enlist the material used for preparation of liposome. Write about any one method of preparation. **05**
(c) What is microemulsion? Give the evaluation methods for microemulsion. **05**
- Q.7** (a) What are biodegradable polymers? Give the applications of biodegradable polymers. **06**
(b) Write a note on pulsincap Technology. **05**
(c) Describe Higuchi- Leeper pump. **05**
