

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm. - SEMESTER-8 • EXAMINATION – SUMMER -2018

Subject Code: 2280016**Date: 09/05/2018****Subject Name: Current advances in Novel Drug Delivery Systems****Time: 10:30 AM TO 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 details: sonophoresis, iontophoresis, Electrophoresis **06**
(b) Discuss on nanoparticulate drug delivery system. **05**
(c) Write a note on in- situ gel. **05**
- Q.2** (a) Explain innovation in Mucoadhesive films. **06**
(b) Discuss formulation ingredients use in Transdermal drug delivery systems. **05**
(c) Explain formulation and evaluation parameter for microcapsules. **05**
- Q.3** (a) Which drug is ideal candidate for TDDS? Mention the classification of transdermal patches. Describe the composition of transdermal patch. **06**
(b) Explain evaluation parameter of liposomes and niosomes. **05**
(c) Enlist the method for microcapsules and explain any one. **05**
- Q.4** (a) Explain the following terms. **06**
Films, Patches, Diskette, strips.
(b) Describe the advantages of mucoadhesive patch over the convectional Tablet. **05**
(c) Explain the Evaluation parameter of SEDDS. **05**
- Q.5** (a) Explain evaluation parameter for In situ gels. **06**
(b) Discuss formulation of Self emulsifying drug delivery system. **05**
(c) Define Pellet. Give the advantage and Disadvantage. Explain any one method. **05**
- Q. 6** (a) Define microspheres and microcapsules. Explain the method of preparation of it. **06**
(b) Enumerate the method of preparation pellets and beads. **05**
(c) Discuss on Characterization and Evaluation of Microcapsules. **05**
- Q.7** (a) Explain minitables. **06**
(b) Enumerate evaluation parameter for niosomes. Explain any two. **05**
(c) What is the evaluation tests carried out on final transdermal product? Write details about Adhesion testing, In Vivo and In Vitro test. **05**
