

GUJARAT TECHNOLOGICAL UNIVERSITY
B. PHARM. - SEMESTER-VII • EXAMINATION – WINTER-2016

Subject Code: 2270016**Date: 29/11/2016****Subject Name: Innovations in Conventional Drug Delivery System****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) Describe the technologies used for preparation of fast dissolving tablets **06**
(b) Define orodispersible tablet. Write its salient feature and benefits with its limitation **05**
(c) Discuss the polymers used in formulation of matrix tablet **05**
- Q.2** (a) Discuss the principle and mechanism of osmotic drug delivery system. Write its merits and demerits **06**
(b) Write the classification of osmotic pump and describe the elementary osmotic pump **05**
(c) Describe the formulation components of osmotic drug delivery system **05**
- Q.3** (a) Describe in detail innovation made in capsule shell **06**
(b) Write a note on port capsule technology **05**
(c) Describe in detail Pulsincap technology **05**
- Q.4** (a) Define pellets. Discuss the innovations in pelletization technologies **06**
(b) Write a note on innovation in gel technologies **05**
(c) Classify the ophthalmic innovative formulations. Write its merits against conventional dosage form **05**
- Q.5** (a) Explain in detail needle free injection technology. **06**
(b) Write a note on prefilled syringe technology for injection formulations. **05**
(c) Explain the recent innovations in parenteral packaging. **05**
- Q. 6** (a) Explain in detail innovation in liquid dosage form **06**
(b) Discuss in detail ocular insert **05**
(c) Define microemulsion. Write down its evaluation parameters **05**
- Q.7** (a) Enlist the methods used to prepared nanosuspension and explain bottom up technology **06**
(b) Write a note on characterization of nanosuspension **05**
(c) Describe the innovations in powder aerosols drug delivery. **05**
