

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
B. Pharm – SEMESTER VII • EXAMINATION – SUMMER-2017

Subject Code: 2270016

Date: 10/05/2017

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) What are ophthalmic inserts? Classify them. Give ideal requirements for ophthalmic inserts | 06 |
| | (b) Write a note on polymers used in ophthalmic drug delivery systems | 05 |
| | (c) What is insitu Gel? Discuss different approaches for insitu Gelation | 05 |
| Q.2 | (a) Classify Osmotic Drug Delivery Systems. Discuss controlled porosity osmotic pump | 06 |
| | (b) Write a note on Evaluation of osmotic drug delivery systems | 05 |
| | (c) Discuss various methods for preparation of nano-suspensions | 05 |
| Q.3 | (a) Ennumerate different methods of Pelletization. Discuss any one method in detail | 06 |
| | (b) What are SMEDDS? Write a note on materials used to prepare SMEDDS | 05 |
| | (c) Differentiate Microemulsion and Multipul emulsion | 05 |
| Q.4 | (a) What are parenterals? Give advantages of recent innovation in parenteral dosage forms | 06 |
| | (b) Write a note on DEPOFORM | 05 |
| | (c) What are Aerosols? Give advantages and disadvantages of Aerosolized Medicine | 05 |
| Q.5 | (a) Enlist different innovations in capsule shells. Give uses and advantages of vegetarian materials as capsule shell | 06 |
| | (b) Discuss different fill materials for Hard Gelatin Capsule | 05 |
| | (c) Write a note on Auto-injector | 05 |
| Q.6 | (a) What are hydrogels? Discuss polymers used to prepare hydrogels. Give pharmaceutical applications of hydrogels | 06 |
| | (b) Write a note on pressurized metered dose inhalers | 05 |
| | (c) Give Advantages, Disadvantages and pharmaceutical applications of pelletization. | 05 |
| Q.7 | (a) Give advantages and disadvantages of Fast Dispersible Tablet. How are they evaluated? | 06 |
| | (b) Write a note on Matrix Tablet | 05 |
| | (c) Write a note on Enterion Capsule | 05 |
