

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M.Pharm Semester –II Examination Dec. - 2011

Subject code: 920102

Date: 08/12/2011

Subject Name: Novel Drug Delivery System Part-I

Time: 10.30 am – 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.**

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|-------------|---|-----------|
| Q.1 | (a) Enumerate drawback of conventional dosage form. Describe various mechanism of drug release modulation in oral solid dosage forms. | 06 |
| | (b) Describe advantages of osmotic drug delivery. Discuss EOP. | 05 |
| | (c) Describe rational of gastroretentive drug delivery system. Explain high density approach. | 05 |
| Q.2 | (a) Describe effervescent based floating drug delivery. | 06 |
| | (b) Explain significance of sublingual drug delivery system. How they are evaluated? | 05 |
| | (c) Discuss regulating aspects of packaging materials. | 05 |
| Q.3 | (a) Describe pH dependent approach for colon targeted drug delivery. | 06 |
| | (b) Enumerate various techniques for particulate coating. Explain spray dry coating. | 05 |
| | (c) Describe factors affecting on drug release from osmotic drug delivery system. | 05 |
| Q.4 | (a) Enlist various approaches for taste masking. Explain encapsulation. | 06 |
| | (b) Classify types of Liposomes based on composition. Explain any one method of liposome manufacturing. | 05 |
| | (c) Enlist vegetable capsule. Explain significance of Pullulan capsule. | 05 |
| Q.5 | (a) Write a note on tamper proof packaging. | 06 |
| | (b) Enlist types of innovation in liquid dosage form. Discuss pharmaceutical applications of Nanoemulsion. | 05 |
| | (c) Write a note on Pulsincap Technology. | 05 |
| Q. 6 | (a) Describe recent advances in semisolid dosage form. Explain organogel. | 06 |
| | (b) Describe evaluation of colon targeted drug delivery system. | 05 |
| | (c) Write notes on quality control of glass containers. | 05 |
| Q.7 | (a) Describe formulation of ocular controlled drug delivery systems. | 06 |
| | (b) Explain in vivo evaluation methods for GRDDS. | 05 |
| | (c) Describe prodrug approach for colon drug delivery system. | 05 |
