

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
M. Pharm. – SEMESTER – II • EXAMINATION – SUMMER • 2014

Subject Code: 2920102

Date: 29-05-2014

Subject Name: Novel Drug Delivery System Part-1

Time: 02:30 pm - 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.**

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|-------------|---|-----------|
| Q.1 | (a) Give the criteria of the drugs most suitable for sublingual drug delivery. Give the formulation attributes for sublingual drug delivery system. | 06 |
| | (b) Write a note on 'Mouth Dissolving Tablets'. | 05 |
| | (c) Drug for the disease/disorder that follows circadian rhythm can be formulated as delayed drug delivery system. Comment. | 05 |
| Q.2 | (a) Describe environmental control in parenteral manufacturing. | 06 |
| | (b) Write the applications of particle coating. | 05 |
| | (c) Describe role of packaging material in improving stability of the dosage form. | 05 |
| Q.3 | (a) Describe recent innovations in capsule technology. | 06 |
| | (b) Write a note on 'Approaches for Parenteral Depot Formulations'. | 05 |
| | (c) Describe evaluation tests for the Osmotic Drug Delivery System. | 05 |
| Q.4 | (a) Describe various approaches to taste masking. | 06 |
| | (b) Write the factors affecting drug release from Osmotic Drug Delivery System. | 05 |
| | (c) Compare and contrast Glass containers with plastic containers. | 05 |
| Q.5 | (a) Describe Wurster process for particle coating. | 06 |
| | (b) Classify different types of osmotic pumps. Discuss any one in detail. | 05 |
| | (c) Write a note on Parenteral emulsions. | 05 |
| Q. 6 | (a) Discuss the evaluation parameters for suspension. | 06 |
| | (b) Describe formulation aspects, excipients used in manufacturing and evaluation parameters of effervescent antacid granules. | 05 |
| | (c) Write a note on Emulgels. | 05 |
| Q.7 | (a) Write a note on solubility enhancement of the poorly soluble drugs. | 08 |
| | (b) Explain in detail excipients used, factor affecting and formulation aspects of low density floating drug delivery system. | 08 |
