

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.

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|-------------|---|-----------|
| 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.
Films, Patches, Diskette, strips. | 06 |
| | (b) Describe the advantages of mucoadhesive patch over the conventional 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 minitablets. | 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 |
