

Roll No

BP-704 T/PY-704 (CBGS)

**B.Pharmacy VII Semester (PCI Scheme)/
(Non-PCI Scheme)**

Examination, November 2019

Choice Based Grading System (CBGS)

Novel Drug Delivery System

Time : Three Hours

Maximum Marks : 75

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. What is microencapsulation? Enumerate the techniques for microencapsulation and describe in detail solvent evaporation and coacervation phase separation technique.
2. Describe the various approaches for Gastroretentive Drug Delivery Systems (GRDDS). Give the applications of GRDDS.
3. Classify controlled drug delivery systems and discuss the physico-chemical and physiological factors that are considered critical in designing of oral controlled drug delivery system.
4. What are the basic components of Transdermal Drug Delivery Systems (TDDS)? Discuss the various approaches of TDDS.
5. Write exhaustive notes on targeted drug delivery.
6. Classify polymers. Discuss the properties, advantages and application of polymers in formulation of controlled release drug delivery systems.

7. Describe the principle and fabrication of implantable and mucosal drug delivery systems.
8. Write short notes on any two of the following :
 - a) Ocular drug delivery systems
 - b) Intrauterine drug delivery systems
 - c) Nasopulmonary drug delivery systems.
