

QP Code: 724006

Reg. No.....

**Seventh Semester B. Pharm Degree Regular Examinations
October 2021**

Novel Drug Delivery Systems

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw diagrams wherever necessary*

Essays

(2x10=20)

1. Explain the approaches involved in design of controlled release formulations
2. Discuss the various approaches for Gastroretentive drug delivery

Short Notes

(7x5=35)

3. Describe ideal drug candidates for pulmonary drug delivery
4. Explain Ocuserts
5. Explain the principles of mucoadhesion
6. Mention the advantages of targeted drug delivery systems
7. List the disadvantages of Implantable systems
8. Highlight the significance of biodegradable polymers with suitable examples
9. Explain microencapsulation by coacervation technique

Answer Briefly

(10x2=20)

10. Differentiate between microspheres and microcapsules
11. List any four examples for mucoadhesive polymers
12. Explain on dry powder inhalers
13. Outline four challenges involved in ocular drug delivery
14. Identify transmucosal permeation routes
15. Differentiate between controlled and sustained drug delivery
16. What are monoclonal antibodies
17. What are Nasal Sprays
18. What are osmotic drug delivery systems
19. Mention the applications of niosomes
