

QP Code: 724006

Reg. No.....

Seventh Semester B. Pharm Degree Supplementary Examinations
June 2023
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. Mention the need for gastro retentive drug delivery systems. Explain the methodology of floating drug delivery system with suitable examples (4+6)
2. Mention the limitations of conventional ocular preparations. Discuss the importance of ocular inserts (4+6)

Short Notes

(7x5=35)

3. Discuss on pharmaceutical applications of polymers
4. Merits and demerits of microspheres
5. Explain the factors affecting drug permeation across mucosal membrane
6. Monoclonal antibodies
7. Elaborate the recent developments on the concept of nanotechnology in pharmaceuticals
8. Explain controlled release delivery system based on the principle of diffusion mechanism
9. Smart polymers with examples

Answer Briefly

(10x2=20)

10. Recall the use of penetrants and crosslinking agent in trans dermal drug delivery system.
11. Mention the applications of dry powder inhalers.
12. Write the merits and demerits of buccal drug delivery system
13. Differentiate biodegradable and non-biodegradable polymers with examples
14. Enlist biological factors affecting selection of drug candidate
15. Differentiate microsphere and nanoparticles
16. Write the mechanism of osmotic drug delivery system
17. Mention the applications of nanoparticles
18. Mention the main components of liposome formulation
19. Name any two categories of marketed transdermal patches with examples
