

FACULTY OF PHARMACY

B. Pharmacy VII - Semester (PCI) (Main & Backlog) Examination, March 2024

Subject: Novel drug delivery systems

Time: 3 Hours

Max. Marks: 75

PART - A

Note: Answer all the questions.

(10 x 2 = 20 Marks)

1. Differentiate between matrix and reservoir system.
2. Define polymers. Classify them with examples.
3. Define microencapsulation. Write its applications.
4. Write the advantages and disadvantages of mucoadhesive drug delivery system.
5. Define microspheres and microcapsules.
6. Write note on permeation enhancers used in Transdermal drug delivery system with examples.
7. What is floating time and floating lag time.
8. Write the applications of targeted drug delivery system.
9. Explain the basic structural components of liposomes.
10. Explain about intra ocular barriers.

PART - B

Note: Answer any two questions.

(2 x 10 = 20 Marks)

11. Explain the approaches used in development of gastro retentive drug delivery systems.
12. Explain in detail any two methods of microencapsulation.
13. Explain the basic components and formulation approaches used in transdermal drug delivery system.

PART - C

Note: Answer any seven questions.

(7 x 5 = 35 Marks)

14. Discuss the physicochemical factors affecting controlled drug delivery system.
15. Explain the principles of mucoadhesion.
16. Write a note on nebulizers.
17. Discuss about intra uterine devices.
18. Explain about preparation methods of liposomes.
19. Write about production of monoclonal antibodies.
20. Explain about ocular inserts.
21. Explain about osmotic pump.
22. Explain about the inflatable and gastroadhesive systems.
