

Advances in Drug Delivery Systems

(Revised Scheme 4)

Q.P. CODE: 9339

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary. Answer any ten questions.

LONG ESSAY (Answer any TEN)

10 X 10 = 100 Marks

1. Illustrate the matrix type of diffusion controlled drug delivery system with example. Discuss the pharmaceutical factors to be considered in the formulation of controlled drug delivery system.
2. Discuss the evaluation of polymers with examples.
3. Discuss the chemically modulated controlled drug delivery systems.
4. Explain the pH-controlled drug delivery system with examples.
5. What are ocuserts? Discuss ocular mucoadhesive drug delivery systems with examples.
6. Illustrate the production steps of monoclonal antibodies. Mention the problems associated with their use.
7. Discuss sonophoresis and iontophoresis as permeation enhancement techniques in transdermal delivery of drugs.
8. Discuss the various formulation approaches for parenteral controlled release preparations.
9. Discuss the formulation and evaluation of niosomes.
10. Discuss the applications of carbon nanotubes and nano crystals in drug delivery.
11. Explain nasal mucoadhesive drug delivery system with examples.
12. Explain the basic components of transdermal system.

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