

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. Explain the reservoir type diffusion controlled drug delivery system with example. Discuss the evaluation of controlled drug delivery system.
2. Illustrate the mechanism of biodegradation of polymers with examples.
3. Discuss the effect of crystallinity of polymers and effect of fillers on the controlled drug delivery systems.
4. Explain the feedback controlled drug delivery system with examples.
5. Discuss rectal mucoadhesive drug delivery systems with examples.
6. Discuss the diagnostic applications of monoclonal antibodies with respect to auto immune diseases. Explain inverse and dual targeting of drugs.
7. Discuss the evaluation parameters of transdermal systems.
8. Discuss the formulation of long acting insulin parenteral controlled release preparations.
9. Discuss the formulation, evaluation and applications of solid lipid nanoparticles.
10. Mention the different types of vesicular drug delivery systems. Give the general method of preparation and applications of virosomes.
11. Explain the formulation and evaluation of metal nanoparticles.
12. Explain in detail formulation and evaluation of niosomes.

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