

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. Discuss in detail Biopharmaceutical factors responsible for CRDF.
2. Explain diffusion based controlled drug delivery systems.
3. A. Write a note on Non biodegradable polymers.
B. Explain preparation and evaluation of vaginal drug delivery system.
4. Explain ophthalmic inserts and pilocarpine ocular drug delivery system.
5. Explain about ion exchange and hydrodynamically balanced controlled drug delivery systems.
6. Discuss rate programmed drug delivery system.
7. Discuss the different approaches in Transdermal drug delivery system.
8. Explain the formulation approaches in parenteral controlled release system and brief their drawbacks.
9. Write a note on nanocrystals and Carbon Nanotubes.
10. Explain Safety issues related to nano drug delivery systems.
11. A. Write preparation and evaluation of solid lipid nanoparticles.
B. Explain the concepts of implantable drug delivery system.
12. Explain the concepts, advantages and disadvantages of Targeted DDS and write the types of drug targeting.

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