

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 in detail different approaches used in controlled drug delivery system.
2. Explain the concepts of CDDS with their advantages and disadvantages.
3. A. Write a note on biodegradable polymers.
B. Write the preparation and evaluation of Nasal drug delivery system.
4. Explain the concept, advantages and disadvantages of Mucoadhesive drug delivery systems.
5. Explain the effects of system parameters on rate controlled drug delivery systems.
6. Discuss the formulation and evaluation methods of Transdermal drug delivery system.
7. Write a detail note on implantable drug delivery system.
8. Write a note on intrauterine implants and Carbon nanotubes.
9. Explain the principle, method of manufacturing evaluation of liposomal DDS.
10. Explain steps involved in preparation of Monoclonal antibody with their applications.
11. A. Write short note on metal nanoparticles.
B. Explain the prodrug approaches in targeted drug delivery systems.
12. Explain in detail formulation and evaluation of nasolpulmonary drug delivery systems.

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