



**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.

**LONG ESSAY (Answer any TWO)**

**2 X 20 = 40 Marks**

1. Explain the concepts, advantages and disadvantages of controlled release drug delivery systems.
2. Name various vesicular systems in nano drug delivery systems. Explain ethosomes, virosomes and carbon nano tubes (CNT).
3. Explain in detail about various rate controlled drug delivery systems.

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Explain the general synthesis and applications of polymers in drug delivery systems.
5. Explain hydro dynamically balanced drug delivery systems.
6. Give a note on development and evaluation of ocular drug delivery systems with its applications.
7. Explain the various formulations approaches used in the development of transdermal drug delivery systems with their evaluation.
8. Give a brief note on development and evaluation of implantable drug delivery systems.
9. Explain the various treatment methods for cancer by targeted drug delivery systems.

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Magnetophoresis
11. Safety issues of nano drug delivery systems

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