

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. Give a note on the factors to be considered for designing the controlled release dosage forms. Explain its evaluation parameters.
2. Explain in detail about Osmotic Pressure and pH Controlled Drug Delivery Systems.
3. a) Explain formulation and evaluation Niosomes
b) Explain formulation and evaluation of nasal drug delivery systems.

SHORT ESSAY (Answer any FIVE)**5 X 10 = 50 Marks**

4. Give a note on development and evaluation of buccal drug delivery systems.
5. Explain permeation of drugs through skin and factors affecting permeation.
6. Explain the development and evaluation of implantable drug delivery systems.
7. Give a brief note on solid lipid nano particles.
8. Give the concept, advantages and disadvantages of targeted drug delivery systems.
9. Explain the formulation approaches used in the development of transdermal drug delivery systems.

SHORT NOTES**2 X 5 = 10 Marks**

10. Iontophoresis
11. Ethosomes
