[Time: 3 Hours] [Max. Marks: 100]

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

- Explain the dissolution and combination of dissolution and diffusion controlled drug delivery 1. systems.
- 2. Give a note on development and evaluation of polymeric nano particles.
- 3. Explain pH controlled and osmotic controlled drug delivery systems.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- Explain the various theories of muco adhesion. 4.
- 5. Explain ion exchange controlled drug delivery systems.
- Give a note on development and evaluation of buccal drug delivery systems with its 6. applications.
- 7. Explain the concept of permeation of drugs through skin and factors affecting permeation.
- Explain the various approaches for injectable controlled release formulations. 8.
- 9. What are monoclonal antibodies? Give their diagnostic and therapeutic applications.

Problems related to monoclonal antibodies SHORT NOTES 2 X 5 = 10 Marks

- 10.
- 11.

