

## Rajiv Gandhiw Infivensity of Health Sciences First Year M.Pharm Degree Examination - May 2013

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

## ADVANCES IN DRUG DELIVERY SYSTEMS

(RS 2 & RS 3)

Q.P. CODE: 9284

Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Answer all questions

## LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- 1. Discuss about formulation and evaluation of long injectable preparations. How is prolongation of GI retention of oral drug delivery systems achieved?
- 2. Classify pharmaceutical polymers. Write notes of choice of polymers used for controlled and sustained release drug delivery system. Add a note on hydro-gels.
- 3. a) How is drug targeting achieved?
  - b) Write in detail about lipsomes.

## **SHORT ESSAY (Answer any FIVE)**

5 X 10 = 50 Marks

- 4. Buccal -DDS
- 5. Implants.
- 6. Permeation of drug through skin.
- 7. Ocular drug delivery systems.
- 8. Basic components of a Trans Dermal Drug Delivery Systems.
- 9. Dissolution test for evaluating oral sustained release drug delivery system.

SHORT NOTES 2 X 5 = 10 Marks

- 10. IUDs
- 11. Ion exchange controlled drug delivery systems.

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