

Rajiv Gandhi University of Health Sciences
First Year M.Pharm Degree Examination – May 2012

[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. Define targeted DDS. What is the rationale in developing such systems. Explain nanoparticulate DDS.
2. a) Physico chemical properties of drug relevant to SR formulations
b) Colon targeting DDS
3. a) Explain with examples biodegradable and non biodegradable polymers used in CDDS.
b) Describe the diffusion CDDS.

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

4. Nasal drug absorption
5. Ion exchange resins with examples
6. Classification of CDDS.
7. Factors influencing permeation
8. Evaluation of osmotic pumps.
9. Applications of targeted DDS

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

10. Buccal DDS
11. Mucoadhesive preparations

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