

Rajiv Gandhi University of Health Sciences, Karnataka

First Year M. Pharm Degree Examination – MAY 2016

Time: Three Hours**Max. Marks: 100 Marks**

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 ESSAYS (Answer any Two)**2 x 20 = 40 Marks**

1. Discuss the detail all the factors to be considered in the design of controlled release dosage forms.
2. Explain the various approaches to controlled drug delivery system.
3. Define and classify buccal drug delivery systems. Discuss the factors affecting mucoadhesion.

SHORT ESSAYS (Answer any FIVE)**5 x 10 = 50 Marks**

4. What are permeation enhancers? Briefly explain the various techniques of permeation enhancement across the skin.
5. Describe the evaluation of implantable drug delivery systems.
6. Describe the principle involved in polymer precipitation methods of preparation of nanoparticles, explain any one technique in detail.
7. Explain the concept of targeted drug delivery. Describe active drug targeting in detail.
8. Write a note on formulation and evaluation of solid lipid nanoparticles (SLN).
9. Discuss on the formulation considerations of ocular drug delivery systems.

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

10. Write how transdermal drug delivery systems can be evaluated.
11. Differentiate between oral conventional and oral controlled release dosage forms.
