

Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.Pharm Degree Examination – Sep 2012

Time: Three Hours**Max. Marks: 80 Marks**

ADVANCED INDUSTRIAL PHARMACY
(Revised Scheme - 2)
Q.P. CODE: 1971

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

LONG ESSAYS (Answer any Two)**2 x 10 = 20 Marks**

1. What is microencapsulation? Mention their merits, demerits and applications. Explain phase separation – coacervation techniques
2. What is drug targeting? Explain their advantages, disadvantages and applications
3. Explain the following approaches: a) Complexation b) Soluble polymorphs

SHORT ESSAYS (Answer any Eight)**8 x 5 = 40 Marks**

4. Write short notes on TDDS
5. Advantages of sustained release drug delivery
6. Importance of pharmacokinetics models
7. Apparent volume of distribution
8. Limitations of buccal drug delivery
9. Methods of preparation of SRDF
10. Significance of pilot plant studies
11. What are allergenic extracts? Mention its units
12. Write short notes on veterinary products
13. Types of validation

SHORT ANSWERS**10 x 2 = 20 Marks**

14. Limitations of method of residuals
15. Define Osmotic Drug Delivery System
16. Factors influencing drug absorption
17. Define clearance
18. Mention the name of four SRDF
19. Polymers used in the preparation of matrix tablet
20. Applications of nanoparticles
21. Noyes-Whitney equation
22. Differentiate between sustained release and controlled release dosage forms
23. Zero order absorption
