

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B. Pharm Degree Examination – Aug / Sep 2011

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. Define allergenic extracts. Explain the steps involved in manufacture of an allergenic extracts
2. What is protein binding? Explain the factors influencing protein binding in detail
3. What are liposomes? Discuss about their advantages, disadvantages and applications

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. What is microspheres? Explain the factors influencing protein binding in detail
5. What is process validation? Discuss the salient features of process validation
6. Discuss about calculation of absorption rate constant by Wagner – Nelson method
7. Enumerate the advantages of microencapsulation. Discuss microencapsulation by air suspension method
8. Discuss about the diffusion controlled and dissolution controlled release systems
9. What are ocuserts? Explain the designing of erodible ocuserts
10. Discuss in detail physicochemical factors influencing oral absorption of drugs
11. Classify and discuss veterinary products
12. Discuss on the general considerations of a pilot plant unit
13. Discuss on biotransformation of drugs by phase I route

SHORT ANSWERS

10 x 2 = 20 Marks

14. Enumerate the drug properties suitable for use in a controlled release tablet
15. Enumerate any four applications of nanoparticles in medicine
16. Define prospective validation and concurrent validation
17. Write a note on drug accumulation on repetitive dosing of drug
18. Write the units of allergenic extracts
19. Write two advantages and disadvantages of transdermal drug delivery systems
20. Write the mechanism of achieving controlled release by ion – exchange resins
21. Give examples for implants
22. What is the importance of biological half life of a drug
23. Why phase II reactions are called true biotransformation processes
