

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B. Pharm Degree Examination – NOV 2016

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 drug targeting. Write a brief note on drug targeting and give the applications of nanoparticles.
2. Define compartment modeling. Write a note on two compartment modelling with suitable examples.
3. Define Transdermal drug delivery system (TDDS). Write a note advantages, disadvantages, and basic components of TDDS.

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

4. Explain any two techniques of preparation of niosomes and write their applications.
5. What is microencapsulation? Explain the steps involved in coacervation phase separation.
6. Write a note on patient related factors affecting plasma protein binding.
7. Write a note on adjustment of dosage regimen in renal failure.
8. Classify herbal formulations with examples and method of preparation of any one formulation.
9. Define pharmacokinetics. Explain various pharmacokinetic and dynamic parameters.
10. Explain in brief invitro evaluation for the controlled drug delivery system.
11. Classify veterinary products with examples. Write a note on formulation of any one product.
12. Write in brief about allergenic extracts and role of pharmacist in handling of allergens.
13. What are the general factors to be considered in pilot plant scale up technique?

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

14. Write a note on matrix tablets.
15. Define apparent volume of distribution and its significance.
16. Mention the advantages of ocular controlled drug delivery.
17. Write a note on microencapsulation.
18. Define bioavailability and its significance.
19. What is dosage regimen?
20. Write a note on first pass metabolism.
21. What are drug implants? Give examples.
22. Define therapeutic window.
23. Give Noyes-Whitney's equation.
