Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B. Pharm Degree Examination – Dec - 2017

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 sustained release dosage forms. Give their advantages and disadvantages. Explain the characteristic of drug to be formulated as sustained released dosage forms.
2. What are liposomes and niosomes? Write their advantages, disadvantages and applications. Explain any one method of preparation of niosomes.
3. Define protein binding. Discuss factor affecting protein binding and its significance in detail with examples.

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

4. Give principle, advantages and disadvantages of controlled drug delivery.
5. Explain the design of matrix tablets for controlled drug delivery.
6. Write a note on nasal drug delivery and give their advantages.
7. Write a short note on buccal patches.
8. Explain the Wagner nelson method to calculate absorption rate.
9. Write a note on phase-I reactions of biotransformation.
10. What are the objectives of validation, Write a note on process validation.
11. What are the advantages and disadvantages of herbal formulation?
12. Define and classify veterinary dosage forms. Explain in detail any two such dosage forms.
13. List out the objectives and significance of pilot plant scale up technique.

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

14. Mention the limitation of buccal tablets.
15. Examples of marketed transdermal drug delivery systems.
16. Write principle of controlled drug delivery system.
17. Write a short note on importance of pharmacokinetic models.
18. Short note on monoexponential kinetics
19. Mention factors to improve the renal clearance.
20. Write a note on Flip-Flop phenomenon.
21. What are allergenic extracts?
22. Classify veterinary products.
23. Write a note on methods to over come first pass effect.

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