

Rajiv Gandhi University of Health Sciences, Karnataka

Fourth year B.Pharm Degree Examination - August 2010

Time: Three Hours**Max. Marks: 70 Marks**

PHARMACEUTICAL TECHNOLOGY AND BIOPHARMACEUTICS (Revised Scheme – 3)

Q.P. CODE: 2616

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. Describe the physiological and physico chemical factors affecting drug absorption
2. Explain in detail the methods for film coating of tablets, the equipments used and the coating materials used for the same
3. Describe briefly the formulation requirements for manufacture of parenterals

SHORT ESSAYS (Answer any Six)**6 x 5 = 30 Marks**

4. What are the common manufacturing defects found in film coated tablets and how are they overcome?
5. Explain the formulation requirements for capsule shells
6. Classify propellants used in pharmaceutical aerosols and briefly describe their characteristic features
7. Give the formulation requirements for ophthalmic solutions
8. Describe the parts of a continuous spray valve used in aerosols
9. Explain the formulation of lipsticks
10. What are the diagnostic uses of radiopharmaceuticals?
11. Describe the methods that can be used to calculate area under the curve

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

12. Give the storage conditions for capsules
13. What are the nonaqueous solvents used in parenterals?
14. What are the requirements for rubber closures used in vials?
15. List out the gelling agents used in pharmaceutical gels
16. Write a note on eye ointments
17. What are the conditioning agents used in shampoos?
18. Define absolute and relative bioavailability
19. What is a class 10,000 area in a parenterals manufacturing unit?
20. What are type I, II, III Glass?
21. What is the significance of displacement value in suppository formulations?
