

# Rajiv Gandhi University of Health Sciences, Karnataka

Fourth year B.Pharm Degree Examination – August 2010

**Time: Three Hours**

**Max. Marks: 80 Marks**

## PHARMACEUTICAL TECHNOLOGY & BIOPHARMACEUTICS (RS - 2)

**Q.P. CODE: 1966**

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. Explain the formulation of aerosols.
2. Define Bioavailability and Bioequivalence. Explain the various methods to determine the bioavailability.
3. Define a unit solid dosage form. Classify the various types of Tablet dosage form and Explain the various QC tests carried out on uncoated tablets

### SHORT ESSAYS (Answer any Eight)

**8 x 5 = 40 Marks**

4. Explain the formulation of suppositories
5. Explain the formulation, manufacturing and filling of liquid oral dosage form
6. Write a note on in-process and final quality control tests of soft gelatin capsules
7. Write a note on the preparation of sterile powders
8. Give an account of the different bases used in ointment
9. Explain the various mechanism and factors influencing drug penetration in semi solid dosage form.
10. Explain the criteria for the selection of propellants in aerosols.
11. Give an account of special techniques applied in the manufacturing of capsule dosage forms.
12. Write the formulation of ophthalmic dosage form
13. Write a note on the nature of shell content in soft gelatin capsule

### SHORT ANSWERS

**10 x 2 = 20 Marks**

14. Mention the defects of coated tablets.
15. Mention the QC tests for suppositories
16. Mention the QC tests for liquid orals
17. Give the differences between gels and ointments
18. What are the methods employed to overcome the rancidity in suppositories?
19. Define class A area
20. Write a note on LAL test.
21. Give an account on talcum powder
22. Mention the examples for penetration enhancers used in ointments
23. Write a note on pinocytosis.