

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination - Dec 2014

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. Give a detailed account of testing of pharmaceutical aerosols.
2. Mention different types of ophthalmic preparations. Write about eye ointment formulations and preparation.
3. Mention the equipments used in the manufacture of hard gelatin capsules and write in detail the method of filling.

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

4. Sugar coating and its advantages
5. Explain compression coating techniques.
6. Write in detail about extraction of gelatin.
7. Define bioavailability. Explain the parameter for measurement of bioavailability.
8. Explain lyophilisation and preparation of sterile powders.
9. Write a note on parenteral emulsions.
10. Write a note on formulation of sublingual tablets.
11. Formulation of nail lacquers

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

12. Noyes-Whitney equation
13. Different components of an aerosol valve. Give their functions
14. Displacement value of suppositories
15. What are pyrogens and its effects?
16. Capping and mottling
17. Effect of pH on absorption of drugs
18. Merits and demerits of chewable tablets
19. Significance and examples of thickening agents used in formulation of shampoo
20. Role of lubricants and glidants used in tablets with examples
21. Advantages of soft gelatin capsules
