

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination – NOV-2017

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. Discuss in detail the types of additives used in the formulation of oral liquids and their filling methods.
2. Explain in detail formulation of aerosols and any two quality control tests.
3. Define bioavailability. How do you measure the bioavailability of a solid dosage form?

SHORT ESSAYS (Answer any Eight)

8 x 5 = 40 Marks

4. Explain the requirements and formulation of ophthalmic solutions.
5. Discuss on suppository bases.
6. What are pyrogens? How they can be eliminated?
7. Explain the formulation of tooth paste.
8. Differentiate between hard gelatin and soft gelatin capsules.
9. Describe manufacturing of hard gelatin capsule shell.
10. Discuss about the passive and active drug transport mechanism with specific examples.
11. Discuss about the quality control tests for ointments.
12. Mention the importance of base adsorption and minim/gram factor in soft gelatin capsules.
13. Write a note on Jellies.

SHORT ANSWERS

10 x 2 = 20 Marks

14. Mention the advantages and disadvantages of injections.
15. Organoleptic additives.
16. Displacement value and its importance in suppositories.
17. Define abrasives with examples.
18. Give two examples for enteric and non-enteric coating polymers.
19. Particle size influencing absorption.
20. Define orange peel and mottling.
21. Mention the ideal requirements of a shampoo.
22. Define flash point test.
23. What are anti-oxidants? Give examples.
