

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination - DEC-2018

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

Pharmaceutical Technology and Biopharmaceutics **(RS – 4)** **Q.P. CODE: 2641**

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 quality control tests for tablets.
2. Discuss in detail the formulation of parenterals.
3. What is bioavailability? Describe the measurement of bioavailability.

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

4. Explain physiological factors influencing drug absorption.
5. Define the term preformulation and explain the parameters to be considered in preformulation studies.
6. Write a detailed note on propellants.
7. Write a note on evaluation of eye drops.
8. Discuss the formulation of reconstitutable suspension with a suitable formula.
9. Write the principle involved in the formation of creams. Discuss various alkalies used in cream formulation.
10. Explain the rotary die process for manufacturing of soft gelatin capsules.
11. Explain in detail formulation of liquid oral dosage forms

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

12. Differentiate diluents and directly compressible vehicles by giving examples.
13. Define true and pseudo polymorphs.
14. Measurement of bloom strength of gelatin.
15. Types of actuators used in aerosols.
16. Significance of pharmacokinetic studies.
17. Write a short note on sterile powders for injection.
18. Write particle size analysis in aerosols.
19. Role of viscosity modifiers in ophthalmics.
20. Organoleptic additives of liquid orals.
21. Ideal properties of shampoos.
