

# Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination – 03-Jan-2020

**Time: Three Hours****Max. Marks: 80 Marks**

## **PHARMACEUTICAL TECHNOLOGY AND 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 extraction, production process and filling of empty hard gelatin capsules.
2. Explain the granulation technique and tablet compression process along with the equipments employed.
3. Define drug absorption. Explain the various physicochemical factors influencing drug absorption.

**SHORT ESSAYS (Answer any Eight)****8 x 5 = 40 Marks**

4. Explain adjustment of isotonicity in parenterals.
5. Explain the quality control tests for parenteral dosage form.
6. Classify the bases used for ointments with examples.
7. Mention the defects of tablets and suggest methods to rectify the same.
8. Write a note on the sources of contamination and methods to prevent the same in the manufacture of sterile dosage forms.
9. Write a note on the formulation of soft gelatin capsules shell.
10. Explain the quality control tests for aerosols.
11. Explain the formulation of lipsticks.
12. Measurement of bioavailability.
13. Describe rotary die process for soft gelatin capsule manufacturing.

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

14. Mention the quality control test for hard gelatin capsules.
15. Write a note on bar coding.
16. Write a formula for preparing vanishing cream.
17. Write the advantages of soft gelatin capsules.
18. Write a note on oily injections.
19. Write a note on soluble tablets.
20. Write a note on absorption rate constant.
21. Define a dentifrice. Mention its characteristics.
22. Define biopharmaceutics and give its application.
23. Biological half-life, give formula.

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