

Rajiv Gandhi University of Health Sciences, Karnataka

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

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. Classify granulation techniques. Discuss the wet granulation method along with equipments used in the each step.
2. Discuss in detail the production facilities for parenterals.
3. a) Write an elaborate note on three phase systems of aerosols with examples.
b) Describe stability testing methods for pharmaceutical aerosols.

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

4. Emphasize on passive diffusion of drug absorption
5. Explain the rotary die process for manufacturing of soft gelatin capsules.
6. Discuss and differentiate the pressure filling and cold filling of aerosols.
7. Explain the formulation of eye drops.
8. Enumerate the manufacturing considerations for liquid orals.
9. Discuss the formulation of toothpaste.
10. Discuss the steps involved in sugar coating with suitable examples of ingredients uses in each step.
11. What are the sources of contamination in parenteral production and write methods to overcome.

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

12. What tablet troches and lozenges?
13. Draw the blood level curve for oral and IV administration.
14. Differentiate the absolute and relative bioavailability
15. What is Biopharmaceutic classification system of drugs?
16. Write on different sizes of hard gelatin capsules.
17. Name the methods of adjustment of isotonicity.
18. Classify the propellants with suitable examples.
19. Write the valve system of aerosol.
20. Write the merits of constant level filling technique of liquid orals.
21. Write the formulation of face powder.
