

Rajiv Gandhi University of Health Sciences, Karnataka

IV Year B.Pharm Degree Examination - NOVEMBER 2015

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)

 $2 \times 10 = 20 \text{ Marks}$

- 1. Define bioavailability. Write its objectives. Explain the pharmacokinetic methods used to determine the bioavailability.
- 2. Define tablet coating. Enlist tablet-coating equipments. Explain the different steps involved in sugar coating of tablets. Write its advantages and disadvantages
- 3. Explain in detail about the formulation requirements and manufacturing of eyedrops.

SHORT ESSAYS (Answer any Six)

 $6 \times 5 = 30 \text{ Marks}$

- 4. Discuss the different factors affecting selection of dermatological vehicles
- 5. List out the ideal properties of shampoos. Add a note on conditioning agents used in shampoos.
- 6. Explain in brief the general formulation and filling of monophasic liquid orals
- 7. Define isotonic solution. Explain different methods to adjust isotonicity of a parenteral solution
- 8. Discuss the methods of preparation, handling and safety precautions of radiopharmaceuticals
- 9. List out the ideal properties of a propellant. Add a note on fluorinated hydrocarbon propellants used in aerosols
- 10. Explain pharmaceutical factors affecting drug absorption
- 11. Briefly explain in-process and final product quality control tests of soft gelatin capsules

SHORT ANSWERS

 $10 \times 2 = 20 \text{ Marks}$

- 12. What are positive and negative control tests in sterility testing of parentrals?
- 13. List out the ideal properties of face powder
- 14. Define base adsorption factor. Give its significance
- 15. Why is disintegrating agent not added in chewable tablets?
- 16. Differentiate between small and large volume parenterals
- 17. Differentiate between dry and wet granulation technique
- 18. Draw blood level curves following I.V and oral administration of drug
- 19. Numerical designation of propellants
- 20. Enumerate the defects in tablet coating.
- 21. List out the composition of vanishing cream with their functions.
