Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.Pharm Degree Examination - Mar 2013

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 x 10 = 20 Marks**

1. Define and classify unit solid dosage forms. Explain in detail about the tablet compression cycle with a neat labeled diagram.
2. Define and classify oral liquid dosage forms. Discuss the general formulation and filling of monophasic liquid orals.
3. Define aerosols. Enlist types of aerosol systems. Explain the manufacture and quality control tests for aerosol products.

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

4. Discuss about the facilitated and active drug transport mechanisms with examples
5. How are sterility and leakage test for parentrals performed?
6. What are creams? Compare the function and formulation aspect of cold and vanishing cream.
7. Describe briefly the manufacturing of soft gelatin capsules.
8. Explain the formulation requirements for chewable tablets
9. Discuss in detail the air and personnel control in sterile preparation area
10. Define ointment. Discuss different types of ointment bases with examples.
11. What are shampoos? Discuss their function and formulation aspects

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

12. Granulation is an essential step in the manufacture of tablets. Justify
13. Define therapeutic bio equivalence
14. Draw blood level curves following oral and I.M administration of drug
15. Clarification of eye drops
16. LAL test
17. Numerical designation of propellants
18. Define base adsorption and minim/gram factor. Give their importance
19. Directly compressible diluents
20. What is class 100 area in a parenterals manufacturing unit?
21. List out the components of face powder with their use.

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