

Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – Mar 2013

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

PHYSICAL PHARMACEUTICS (Revised Scheme 3)

Q.P. CODE: 2606

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. What is an Adsorption Isotherm? Mention its applications. State and explain Langmuir Adsorption Isotherm.
2. List out the various methods to determine particle size. Explain in detail Coulter-counter Apparatus.
3. Define and Classify Complexes. Define Organic Molecular Complexes with suitable examples.

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

4. What is thixotropy. Describe its measurement and application.
5. Explain the methodology of Accelerated Stability Testing with suitable graphs.
6. What is Contact Angle? Give its significance in wetting of solids with liquids with examples.
7. What are Buffers? Write a note on physiological and pharmaceutical buffers.
8. What is Order of Reaction? Describe the various methods used to determine Order of Reaction.
9. What are Colloids? Describe different methods of purification of colloids.
10. What is Critical Solution Temperature? What is the effect of impurity on it.
11. Define and classify Emulsions. Write a note on evaluation of emulsions.

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

12. Azeotropic Mixtures
13. Pseudo Order Reaction
14. Structured Vehicles
15. Packing Arrangement of Powders
16. Coacervation
17. Dilatant Materials
18. DLVO Theory
19. Solubility Curves
20. Faraday Tyndall Effect
21. BET Equation
