tmp.doc

Rajiv Gandhi University of Health Sciences, Karnataka
II Year B.Pharm Degree Examination – Sep 2012

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

PHYSICAL PHARMACEUTICS
(Revised Scheme - 2)
Q.P. CODE: 1956

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 meant by controlled flocculation? Discuss various means by which controlled flocculation can be achieved
2. Define CST with the help of the diagram. Give examples of systems revealing upper, lower as well as both upper and lower CST values
3. Explain the derived properties of powders

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

4. Rheological behaviour of suspensions
5. Define protein binding and mention its applications
6. Principle and working of Ostwald's viscometer
7. Define emulsion and give its applications
8. What are monomolecular inclusion complexes
9. Explain the relation between contact angle and Wettability
10. Describe the one method for particle size distribution
11. Give an account of bulk density and porosity
12. Define refractive index and give its applications
13. Define optical activity. Add a note on optical activity and chemical constitution

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

14. What is shelf life and half life
15. Hixon –crown cube root law
16. Give examples for 1st order reaction
17. Dipole movement
18. Define critical solution temperature
19. What are isotonic and paratonic solutions
20. Define hardy-schulze rule
21. Define plug flow
22. Define syneresis and coacervation
23. Give Henderson – hasselbatch equation

*****