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Rajiv Gandhi University of Health Sciences, Karnataka

Second year B.Pharm Degree Examination - August 2010

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)

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

- 1. What are the methods by which drugs can degrade? How the drugs are stabilized against such degradation?
- 2. Define Newtonian and non-newtonian liquids. Explain the thixotropic properties of Non-Newtonian liquids
- 3. Classify organic molecular complexes giving one example of each and indicate the type of intermolecular interactions

SHORT ESSAYS (Answer any Six)

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

- 4. What is the role of dissociation constant in absorption of drugs?
- 5. Discuss the variation of mutual solubility of phenol water system
- 6. How do you carry out diffusion study?
- 7. Explain Cup and Bob viscometer
- 8. Define angle of repose. What is its significance?
- 9. What is wetting? Explain its significance in suspensions
- 10. Differentiate between lyophillic and lyobhobic colloids
- 11. What are dilatant systems? Explain

SHORT ANSWERS

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

- 12. Give Henderson-Hasselbalch equation
- 13. Define half life of a reaction
- 14. What is yield value?
- 15. Define specific surface area
- 16. How do you prevent creaming in emulsion?
- 17. Define gold number
- 18. What are structured vehicles? Give examples
- 19. Define critical solution temperature
- 20. What do you mean by polarization?
- 21. What is a hysteresis loop?