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Rajiv Gandhi University of Health Sciences, Karnataka

II Year B.Pharm Degree Examination – December 2014

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)

- 1. Define Rate and Molecularity of a reaction. Explain the kinetics of first order reaction with suitable examples.
- 2. Define dissolution and explain the factors influencing dissolution.
- 3. State and explain Raoults law. What are Ideal and real solutions? Give examples.

SHORT ESSAYS (Answer any Six)

- 4. What do you mean by polarization? Explain.
- 5. Explain accelerated stability studies. Mention its limitations.
- 6. Mention the method of formation of micelles with suitable example.
- 7. Explain the bulges and spurs of rheograms.
- 8. What do you mean by sieve analysis? Explain.
- 9. What is contact angle? How do you decrease the contact angle? Explain.
- 10. Give the importance of complexation in pharmacy.
- 11. What are dilatant systems? Explain with examples.

SHORT ANSWERS

- 12. Differentiate dextro rotatory and Levo rotatory.
- 13. Define a solute and solvent.
- 14. Name two methods to determine P^{H} .
- 15. Give the units zero order, first order, and second order reactions.
- 16. Define an adsorption isotherm.
- 17. What is yield value?
- 18. What is shape factor? Give the shape factor for sphere.
- 19. Give the equation used to calculate zeta potential.
- 20. Define stokes law?
- 21. What is Faraday Tyndal effect?

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10 x 2 = 20 Marks

2 x 10 = 20 Marks

6 x 5 = 30 Marks