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

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. State and explain Raoults law. What are ideal and real solutions give examples

2. What do you mean by rate of reaction? Explain various factors affecting rate of reaction

3. Define and classify colloids. List out the methods for preparation of colloids and explain any two methods

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

4. What are clatharates? Give its application with examples

5. Define emulsifying agents. On basis of mechanism of action how emulsifying agents are classified

6. Write a note on evaluation of stability of suspensions

7. How do you represent particle size distribution graphically?

8. Explain Brookfield viscometer

9. Define dissolution. Discuss the factors affecting dissolution

10. Explain Gibb's adsorption equation

11. What is pH? Explain Sorensen's pH scale

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

12. What is Snell's law?

13. List out various physical properties of drug molecule

14. Give any two applications of distribution law

15. Give Arrhenius equation

16. Define HLB value

17. Give the applications of porosity

18. Write a note on micro emulsions

19. Classify complexes

20. What is Faraday Tyndall effect?

21. Give buffer equation

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