Rajiv Gandhi University of Health Sciences, Karnataka

II Year B. Pharm Degree Examination – NOV-2017

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. Explain the methodology of accelerated stability testing. How is it useful for predicting shelf life of a drug?
2. Define solubility. Discuss the factors influencing the solubility of solid in liquid.
3. Define and classify colloids. Write note on preparation and purification of colloids.

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

4. Explain the applications of distribution law.
5. List-out the physical properties of drug molecules. Explain any one of them with suitable example.
6. Explain the theory of emulsification by monomolecular layer.
7. Describe in-vitro study of dissolution.
8. Explain Coulter-Counter method for determination of particle size.
9. Write the principle and working of Ostwald's viscometer.
10. Explain pH determination methods.
11. Graphical method for determination of order of reaction
12. Flow behavior of pseudo plastic system
13. Difference between flocculated and deflocculated suspension

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

14. State Raoult's law.
15. What is haemolysis?
16. What is tie line? Explain.
17. Give buffer equation for acid and base.
18. Define HLB.
19. Write BET equation.
20. Name two instruments used to measure surface tension.
21. What is gegenion?
22. What is kraft point?
23. What is Bulkiness?

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