

Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Pharm Degree Examination – Aug / Sep 2011

Time: Three Hours**Max. Marks: 70 Marks**

PHARMACEUTICAL ENGINEERING (Revised Scheme 3)

Q.P. CODE: 2614

Your answers should be specific to the questions asked
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAYS (Answer any Two)**2 x 10 = 20 Marks**

1. Explain mier's supersaturation theory and its limitations. Discuss the solubility curves
2. Write the theory of air conditioning. Discuss the construction, working, and pharmaceutical applications of air conditioner
3. Describe the theory of solid – solid mixing. Write the construction and working of silverson emulsifier

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

4. Write the construction, working and advantages, of multiple effect evaporator
5. Describe Bernoulli's theorem and its applications
6. Write a note on Industrial hazards
7. Write the construction and working of filter press
8. Explain the construction and working of a freeze Drier
9. State Fourier's law. Explain the derivation of the law.
10. Write on steel and aluminum as construction of materials
11. Describe the laws governing size reduction

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

12. Define mean free path
13. Define conduction and convection
14. Write poiseulli's equation
15. Name different parts of Belt conveyor
16. Mention applications of fractional distillation
17. Principle of spray dryer
18. Define crevice corrosion
19. Application of dimensional formulae
20. Write uses of Bag filter
21. Draw and label filter leaf