

Rajiv Gandhi University of Health Sciences, Karnataka

Third year B.Pharm Degree Examination – August 2010

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. Discuss the theory of filtration. What is a filter leaf?
2. Discuss the theory of air conditioning
3. Discuss the theory of mixing. Add a note on planetary mixer

SHORT ESSAYS (Answer any Six)

6 x 5 = 30 Marks

4. Deduce Fourier's law
5. Explain the working of a film evaporator
6. Discuss the functioning of a fluidized bed drier
7. Explain the working principle of fluid energy mills
8. Describe meta filters
9. Discuss steel as a material of pharmaceutical plant construction
10. Write in brief on industrial hazards
11. Discuss Reynold's experiment to understand mechanism of fluid flow

SHORT ANSWERS

10 x 2 = 20 Marks

12. What is an azeotrope? Give two examples
13. What is Raoult's law?
14. Define humid heat and humid volume
15. Draw a neat diagram of sigma mixer
16. Name two dimensionless numbers
17. Mention two advantages of orifice meter
18. What is pitting corrosion?
19. How do you prevent caking in crystal?
20. Give the classification of centrifuges
21. Define Calendria. Give its significance
