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Rajiv Gandhi University of Health Sciences, Karnataka

III Year B.Pharm Degree Examination - NOV 2017

Time: Three Hours

Max. Marks: 80 Marks

PHARMACEUTICAL ENGINEERING

(Revised Scheme - 2)

Q.P. CODE: 1964

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

LONG ESSAYS (Answer any Two)

- What are the factors affecting size reduction? Explain in detail. 1.
- 2. Explain the rate of drying and discuss the process of freeze drying.
- 3. What is evaporation? Explain the factors affecting rate of evaporation. Add a note on falling film evaporator.

SHORT ESSAYS (Answer any Eight)

- What is Mier's theory? What are its limitations? 4.
- 5. Discuss about the uses of steam distillation.
- 6. Write a note on belt conveyor.
- 7. Discuss about the applications of filter aids.
- 8. Explain the construction and working of spray dryer
- 9. Differentiate between single effect evaporation and multiple effect evaporation.
- 10. Describe the construction and working of Swenson Walker Crystalliser.
- Explain the construction and working of ball mill. 11.
- 12. Discuss about the types of glass. Add a note on the evaluation of glass container.
- Discuss about the principle involved in the working of an air conditioner. 13.

SHORT ANSWERS

- 14. List-out the various ways by which size separation can be carried out.
- 15. Draw a neat, labeled diagram of sigma blade mixer.
- 16. Suggest four ways to avoid air pollution.
- 17. List-out the uses of refrigeration.
- 18. Classify centrifuges.
- 19. List-out the problem areas of mixing.
- 20. How do you avoid the caking of crystals?
- 21. What is Fourier's law?
- 22. Define forced and natural convection.
- 23. Define (a) Black body (b) Gray body.

2 x 10 = 20 Marks

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10 x 2 = 20 Marks

8 x 5 = 40 Marks