

First Year M.Pharm Degree Examination - October 2010

[Time: 3 Hours] [Max. Marks: 100]

PREFORMULATION AND PRODUCTION MANAGEMENT

(Revised Scheme 2)

Q.P. CODE: 9282

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

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- 1. With the help of a neat sketch explain the layout of the plant for large volume parenteral prepared by terminal sterilization. What different GMP regulations are to be followed in the design of the layout?
- 2. Explain the different techniques for the study of crystal properties and polymorphism with suitable examples
- 3. What different industrial hazards are possible in pharmaceutical industry? Explain the preventive measures

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Explain the significance of pilot plant scale up studies. What are the parameters that influence these studies?
- 5. Explain the significance of human resource development in the pharmaceutical industry
- 6. Explain the forces involved in the tablet compression
- 7. What is your understanding of validation? Briefly describe the different techniques employed in the pharmaceutical industry
- 8. What different statistical methods are employed in the optimization techniques and briefly describe them
- 9. Explain the physico-chemical characteristics of a new drug molecule relevant to different dosage forms

SHORT NOTES 2 X 5 = 10 Marks

- 10. What are the salient features of Trade Related Investment Measures (TRIMS)
- 11. Explain the significance of ISO 9000 series

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