

## Rajiv Gandhiwwnfivenzikevoof Healthy Sciences First Year M.Pharm Degree Examination - May 2011

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

## PREFORMULATION AND PRODUCTION MANAGEMENT

(RS 2 & RS 3)

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

- Explain the concepts of pre-formulation with special emphasis on study of stability, interactions with excipient and physico-chemical characteristics of drug molecules.
- Discuss about ISO 9000 series. Explain the documentation practices that are ideally 2. implemented in a production unit.
- 3. Write in detail pilot plant scale up concepts and techniques for parenterals

## SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Effluent treatment in pharamaceutical industries
- 5. Personnel training.
- WWW.FirstRanker.com Formulation aspects of medicated lozenges 6.
- 7. Centralized purchasing
- 8. Salient features of GMP
- 9. Classical optimization

**SHORT NOTES** 

2 X 5 = 10 Marks

- 10. GATT and trips
- Inventory models. 11.