

Rajiv Gandhi University of Health Sciences, Karnataka

First Year M. Pharm Degree Examination – May 2016

Time: Three Hours**Max. Marks: 100 Marks**

PREFORMULATION AND PRODUCTION MANAGEMENT (Revised Scheme 4)

Q.P. CODE: 9337

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

LONG ESSAYS (Answer any Two)**2 x 20 = 40 Marks**

1. Define Inventory Controls. Explain Inventory Management in Pharmaceutical Industry Add brief notes on EOQ and ABC analysis.
2. Explain in detail, pilot plant scale up technique for liquid dosage forms add a note on process automation technology.
3. Describe the different parts of a patent. Discuss the procedure for applying for a patent in India.

SHORT ESSAYS (Answer any FIVE)**5 x 10 = 50 Marks**

4. Explain various forces and energy acting on dies and punches during compression of tablets.
5. What do you mean by solubilization? Discuss the techniques used for solubility enhancement.
6. Discuss different material handling systems used in pharmaceutical industries.
7. Briefly discuss stores management. Add a note on salvaging and disposal of scraps.
8. What is validation master plan? Add a note on cleaning validation.
9. Discuss the concept of optimization and add a note on optimization parameters.

SHORT NOTES**2 x 5 = 10 Marks**

10. Lead time and reorder time, each with example.
11. SUPAC guidelines.
