

# Rajiv Gandhi University of Health Sciences, Karnataka

## First Year M. Pharm Degree Examination – Oct/Nov 2014

**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. Explain the physico-chemical properties to be studied as part of pre-formulation for a new drug molecule.
2. Discuss the purchasing cycle and procedures adopted in pharmaceutical industries.
3. What are the various cGMP considerations for manufacture of tablet dosage forms?

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

4. Explain briefly inventory management in pharmaceutical industry with special reference to different modern inventory management systems.
5. Write a note on formulation of medicated lozenges and dispersible tablets.
6. Write a note on Intellectual Property Rights in Pharmaceuticals.
7. How are mechanical and electrical hazards caused in industries? Write a note on monitoring and prevention systems applied to check such hazards.
8. What are the important elements of Quality by design? Write a note on factorial design.
9. What are the basic principles of stability testing of new drug substances as per ICH? What is the importance of oxidative and photostability testing?

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

10. Write the importance of GATT and TRIPS.
11. Write briefly about need for Industrial Pollution control.

\*\*\*\*\*