



**Rajiv Gandhi University of Health Sciences**  
**First Year M.Pharm Degree Examination - Nov 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**

1. What is the objective of preformulation studies? How are crystal properties studied? Explain the  $\beta$ -cyclodextrin drug dispersion systems.
2. Explain the concepts of TQM. How are validation systems evolved and implemented in a tablet manufacturing unit?
3. a) Write briefly about effect of particle size, moisture content and lubrication on strength of tablets  
b) Explain the concepts of scale up and pilot plant with particular reference to tablets.

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Mechanical hazards and fire accidents
5. Drug excipient interaction
6. Centralized and decentralized purchasing
7. Types of material handling systems
8. Inventory evaluation
9. Solubilisation

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Energy involved in compression consolidation in high loads for tablets.
11. TRIPS and TRIMS

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