Total No. of Questions : 4]	SEAT No.:
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[5246]-103

M. Pharmacy (Semester - I) ADVANCED PHARMACEUTICS-I (2013 Pattern)

Time: 3 Hours] [Max. Marks: 50

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Draw well labeled diagrams wherever necessary.
- 3) Figures to the right indicate full marks.
- Q1) Give significance of Preformulation studies. What preformulation studies are conducted for solid oral dosage forms? Explain with relevant examples.[10]
- Q2) Solve any three

[15]

- a) Write a note on rheology of polymers
- b) What are excipients? Discuss the selection criteria for excipients.
- c) Describe spray drying and spray congealing methods of microencapsulation.
- d) Justify "Quality is built into a product and not inspected in"
- Q3) Write short notes on any three

[15]

- a) Validation of mixing process
- b) Diffusion and dissolution
- c) Cyclodextrins
- d) Hixson -Crowell and Higuchi model of Dissolution
- Q4) Classify optimization methods. Describe briefly the importance of experimental design. Also add a note on contour plots.[10]

OR

What are Accelerated, intermediate and long term stability studies. How is the shelf life prediction done on the basis of accelerated stability studies?

