

Subject Code: PCE31B/[R13]

M. Pharm I Semester Regular/ Supplementary Examinations, April, 2015

ADVANCED PHYSICAL PHARMACEUTICS

(Common to Pharmaceutics and Pharmaceutical Technology)

Time: 3 Hours

Max Marks: 60

Answer any FIVE questions

All questions carry EQUAL marks

\*\*\*\*

1. Describe in detail about how the particle size distribution influence the drug molecules and add a note on various particle size analysis methods 12M
2. Write about (4+4+4)M
  - a) Drug derivatization
  - b) Solid state manipulation
  - c) Crystal growth mechanisms
3. Describe the theory and instrumentation involved in Rheology 12M
4. Write about the kinetics of decomposition reaction of drug substances and various methods of stabilization 12M
5. Explain about thermodynamics of polymer solution and applications of polymers in pharmaceutical formulations 12M
6. Describe about various instruments involved in the analysis of drug molecules 12M
7. Write short notes on (4+4+4)M
  - a) Consolidation strength of granules
  - b) Compression under high loads
  - c) Haecckel plots
8. Explain in detail about release of drugs from emulsions and their stability testing 12M

\*\*\*\*