

**Subject Code: CEU12/R05**

**M. Pharm I Semester Supply Examinations, March, 2014**

**PHYSICAL PHARMACEUTICS  
(PHARMACEUTICS)**

**Time: 3 Hours**

**Max Marks: 60**

**Answer any FIVE questions  
All questions carry EQUAL marks**

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1. Explain various methods of determination of particle size analysis.
2. Explain the role of Solid Dispersions in enhancing solubility & explain various methods of preparations of solid Dispersions.
3. Write notes on the following
  - a. Compaction Profiles
  - b. Heckel Plots
  - c. Steps involved in tablet compression
4. Explain stability testing of emulsions and suspension and release of drugs from suspensions and emulsion formulations.
5. Define & classify polymers? What are the pharmaceutical applications of polymers? Add a note on thermodynamics of polymer solution?
6.
  - a) Methods of accelerated stability testing in dosage forms
  - b) Complex order Kinetics
7.
  - a) Rheological properties of Dispersive systems and Semi solids
  - b) Methods of enhancement of solubility
8. Explain the principle, Instrumentation, Physical properties and applications of Differential Thermal Analysis (DTA).

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