

Subject Code: CEU2B

M. Pharm II Semester [R05] Regular/Supplementary Examinations, Dec 2013

**ADVANCED PHARMACEUTICAL TECHNOLOGY
(Pharmaceutics)**

Time: 3 Hours

Max Marks: 60

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

1. (a) Describe the goals of preformulation and how does solubility and partition coefficient play role in preformulation studies.
(b) Explain in detail about drug excipient compatibility in the development of solid dosage forms.
2. (a) Explain in detail about the physics of tablet compression and computerization for in process quality control of tablets.
(b) Describe various coating techniques in tablet technology for product development.
3. Write in detail about recent advances in formulation development and manufacturing of powder dosage forms meant for internal use.
4. Discuss recent advances in formulation development and excipients used in monophasic liquid dosage forms.
5. Explain in detail about formulation aspects, manufacturing and quality control techniques for semisolid dosage forms.
6. Describe in detail about various advances in production techniques for parenteral dosage forms.
7. Discuss about advances in propellants, various metered dose inhaler and dry powder inhaler.
8. Write about
 - (a) Microbiological testing of water
 - (b) Theoretical evaluation of aseptic operations
