

AMAZON-I (CBCS): WINTER - 2015
SUBJECT: ADVANCED PHARMACEUTICS-I

Day: **Friday**
Date: **08-01-2016**

Time: **10:00AM TO 1:00PM.**
Max. Marks: 60

N.B.:

- 1) Attempt any **THREE** questions from Section-I and Attempt any **THREE** questions from Section-II.
 - 2) Figures to the right indicate full marks.
 - 3) Answers to both sections should be written in the **SEPRATE** answer book.
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SECTION-I

- Q.1** Give an account of the various techniques and tools used for drug- excipient compatibility testing. [10]
- Q.2** Explain the model dependant and model independent approaches for the comparison of dissolution profiles. [10]
- Q.3** Explain the Q.1 ICH guidelines for stability testing of pharmaceuticals. [10]
- Q.4** Write elaborate notes on: [10]
- a) Optimization by statistical approaches
 - b) Laser diffraction technique for particle size determination

SECTION-II

- Q.5** Classify SAA. Explain the factors affecting micellization. [10]
- Q.6** Explain the different types of solid dispersions. Elaborate on methods to prepare solid dispersions. [10]
- Q.7** What are biodegradable polymers? Explain the different mechanisms of biodegradation. [10]
- Q.8** Write notes on: [10]
- a) Thermodynamic aspects of polymer solution
 - b) New techniques in pharmaceutical granulation