

AMAZON – I (CBCS): WINTER - 2016
SUBJECT: ADVANCED PHARMACEUTICS- I

Day: Friday
Date: 06-01-2017

Time: 10:00AM TO 1:00 P.M.
Max. Marks: 60

N.B.:

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

SECTION-I

- Q.1** Give an account of the drug–excipient studies to be performed during preformulation stage. (10)
- Q.2** Explain the Q5 ICH guidelines with respect to the quality of biotechnological products. (10)
- Q.3** Give an account of the factors affecting dissolution rate. (10)
- Q.4** Write notes on: (10)
- a) Principle, Instrumentation and application of DSC
 - b) Box Behenken approach for optimization of pharmaceutical formulation

SECTION-II

- Q.5** Give an account of the thermodynamic aspects of polymer solutions. (10)
- Q.6** Define CMC and explain factors affecting CMC. (10)
- Q.7** Give an account of various stimuli sensitive polymer and their applications. (10)
- Q.8** Write notes on: (10)
- a) Preparation and characterization of solid dispersions
 - b) Heckel plot and its application

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