

AMAZON-I (2012 COURSE – CBCS) : ~~JANUARY-2014~~
SUBJECT ADVANCE CORE SUBJECT-I – ADVANCED PHARMACEUTICS-I

Day : Wednesday
Date : 08-01-2014

Time : 10.00 A.M. TO 1.00 P.M.
Max. Marks : 60.

N.B.:

- 1) Answer any **THREE** questions from Section-I and any **THREE** questions from Section-II.
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.

SECTION-I

- Q.1** Explain the model independent approach for the comparison of dissolution profile. (10)
- Q.2** Describe the various parameters to be considered during stability testing as per ICH guidelines. (10)
- Q.3** Give an account of the approach to study drug-excipient compatibility. (10)
- Q.4** Write notes on: (10)
- a) Factors affecting dissolution rate
 - b) Principle of Laser diffraction based particles size analysis.

SECTION-II

- Q.5** Give an account of factors affecting phase behaviour. (10)
- Q.6** What are the bioresorbable polymers? Explain in detail their mechanism of biodegradation. (10)
- Q.7** What are cyclodextrins? Explain the methods to prepare cyclodextrin drug complexes. (10)
- Q.8** Write notes on: (10)
- a) Approaches to study compressional behaviour of solids.
 - b) Techniques of polymerization.

* * *