PARANA – II (2012 COURSE) (CBCS): JULY-2014
SUBJECT : ADVANCE CORE SUBJECT – II: ADVANCED PHARMACEUTICAL CHEMISTRY – II

Day : Wednesday
Date : 02-07-2014

Time : 10:00AM-T01:00 P.M.
Max. Marks : 60

N.B.:

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

SECTION – I

Q.1 Explain in detail rationale for design of covalently binding inhibitors along with examples. **[10]**

Q.2 Discuss giving examples, **ANY TWO** of the following: **[10]**

a) Leucotrine inhibitors
b) MAO inhibitors
c) Cytochrome-450 inhibitors
d) DNA intercalating agents

Q.3 Discuss pharmaceutical applications of prodrugs. **[10]**

Q.4 Write elaborate notes on **ANY TWO** of the following: **[10]**

a) Ideal properties and limitations of prodrugs
b) Site specific delivery through prodrugs
c) Ringdorf's model
d) Macromolecular prodrug

SECTION – II

Q.5 Discuss giving examples, the guidelines used in designing compounds by synthone approach. **[10]**

Q.6 Enlist QSAR models used in drug design and describe Hansch analysis in QSAR with application. **[10]**

Q.7 Describe synthesis of **ANY TWO** of the following using synthon approach: **[10]**

a) Trimethoprin
b) Ciprofloxacin
c) Rosiglutazone
d) Diclofenac

Q.8 Write elaborate notes on **ANY TWO** of the following: **[10]**

a) Advantages and limitations of QSAR
b) Direct ligand – gated ion channels
c) Analog based drug design