M. PHARM. SEM-II (CHOICE BASED CREDIT & GRADE SYSTEM)
: SUMMER - 2018
SUBJECT: ADVANCED PHARMACEUTICAL CHEMISTRY-III

Day: **Thursday** **S-2018-4007** Time: **10.00 AM to 01.00 PM**
Date: **05/07/2018** 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) Give reactions, structures, schemes **WHEREVER** necessary.
4) Figures to the right indicate **FULL** marks.

SECTION-I

Q.1 Discuss in detail metabolism and drug delivery consequences of peptides and proteins. **(10)**

Q.2 Write in detail about supporters and linkers used in combinatorial synthesis. **(10)**

Q.3 Discuss the synthesis, mechanism and stereo chemistry of any two of the following drugs: **(10)**
i) Fexofenadine ii) Cetrizine iii) Ciprofloxacin

Q.4 Write short notes on any **TWO** of the following: **(10)**

a) Parallel solution synthesis
b) Somatostatin
c) High throughput screening (HTS)

SECTION-II

Q.5 **a)** Explain the principle of chemotherapy for cancer with reference to cell cycle.. **(05)**
b) Discuss the SAR of Dopaminergic agents used in parkinsonism **(05)**

Q.6 Describe HIV life cycle in detail. Discuss chemistry and mode of action of anti HIV drugs. **(10)**

Q.7 Explain the pathology of diabetes and various drugs used in the treatment of diabetes. **(10)**

Q.8 Write short notes on any **TWO** of the following: **(10)**

a) Monte Carlo simulation
b) Antianginal and antiarrythmic drugs
c) Energy minimization methods

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