

MASTER OF PHARMACY (M. PHARM.) (CBCS-2019 COURSE)  
M.Pharm. Sem-I : SUMMER : 2022  
SUBJECT: ADVANCED MEDICINAL CHEMISTRY

Day : Thursday  
Date 12-May-2022

S-20727-2022

Time : 10:00 AM-01:00 PM  
Max. Marks: 75

N.B.:

- 1) Attempt ANY FIVE questions.
- 2) Figures to the right indicate FULL marks.

3) Answers to both sections should be written in separate Answer book.

### Sec-I

- Q.1 a) What are different types of receptors? Discuss various theories of drug receptor interaction. (10)
- b) Discuss about stages of drug discovery. (05)
- Q.2 a) Explain in detail analog approach for drug design with suitable examples. (10)
- b) Write concept of prodrug approach with suitable examples. (05)
- Q.3 a) Classify anticonvulsant agents. Discuss chemistry and SAR with examples. (07)
- b) Explain strategies to combat against drug resistance developed by antibiotic therapy. (08)
- Q.4 a) Explain in brief the enantioselectivity in absorption distribution, metabolism and elimination with suitable examples. (07)
- b) Give structural features of histamine receptors. Discuss about selective and non-selective H<sub>1</sub> antagonists. (08)

### Sec-II

- Q.5 a) Discuss Classification, MOA, SAR and chemistry of cholinergic agonists. (07)
- b) Explain concept of enzyme inhibition process to be excellent tool in the process of drug design with suitable examples. (08)

OR

- Q.6 Write Short Notes: (15)
- a) Chemistry of HIV protease inhibitors
  - b) Aspects in combinatorial chemistry
  - c) Pedidomimetic design approach

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