

Code: 13R00704

R13

B.Pharm IV Year I Semester (R13) Supplementary Examinations June 2018

MEDICINAL CHEMISTRY – III

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- Write SAR of H_1 receptor antagonist.
 - Write synthesis of clotrimazole.
 - Classify antimycobacterial agents.
 - Write a short note on mechanism of action of alkylating agent as antineoplastic agent.
 - Give MOA of nucleotide reverse transcriptase.
 - Write a short note on combinational chemistry.
 - Write a short note on structure based drug design and discovery.
 - Write a short note on antimetabolites as anticancer agents.
 - Explain in brief H_3 agonists.
 - Explain in brief H_3 antagonists.

PART – B

(Answer all five units, 5 X 10 = 50 Marks)

UNIT – I

- 2 Give the classification of antihistaminic agents on the basis of chemical structures. Outline synthesis of promethazine and omeprazole.

OR

- 3 Describe the chemistry, pharmacological actions, SAR and metabolism of chlorpheniramine.

UNIT – II

- 4 Classify the synthetic antibacterial agents. Give MOA, SAR of sulphonamides.

OR

- 5 Describe the chemistry, pharmacological actions, SAR and metabolism of clotrimazole.

UNIT – III

- 6 Give the classification of antimalarial agent on the basis of chemical structure and outline the synthesis of chloroquine & isoniazid.

OR

- 7 Write a short note on malarial life cycle. Give QSAR for quinolones with suitable examples.

UNIT – IV

- 8 Classify antiviral agents with suitable examples. Outline synthesis of acyclovir, zidovudine.

OR

- 9 Explain in brief anti HIV drugs. Give MOA, QSAR of NNRTIs.

UNIT – V

- 10 Write a note on drug design and discovery and explain in brief pharmacophore modeling.

OR

- 11 Write a note on ligand based drug design. Explain stereochemistry in drug design with suitable examples.
