

Code: 13R00501

R13

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

MEDICINAL CHEMISTRY - I

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Define hydrogen bonding with example.
 - (b) What is bio-isosterism?
 - (c) What is adrenergic antagonists? Give example.
 - (d) Write the therapeutic uses of naphazoline.
 - (e) Give the example of anxiolytics.
 - (f) Write the structure & uses of levodopa.
 - (g) Write the structure & uses of picrotoxin.
 - (h) Write the mechanism of action of amitriptyline.
 - (i) Outline the synthesis of halothane.
 - (j) Write the mechanism of action of procaine.

PART – B

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

UNIT – I

- 2 Write a note on ionization in relation to biological activity.

OR

- 3 Explain drug distribution and protein binding.

UNIT – II

- 4 Define and classify adrenergic agents with examples and explain the SAR of sympathomimetics.

OR

- 5 Write the synthesis of pilocarpine and add a note on SAR of cholinergic agonists.

UNIT – III

- 6 Classify sedatives and hypnotics with examples. Explain the mechanism of action of phenobarbital.

OR

- 7 What is anti-parkinsonism? Explain the mechanism of action and synthesis of amantadine.

UNIT – IV

- 8 Write a note on psychomotor stimulants outline the synthesis of dextroamphetamine.

OR

- 9 Outline the synthesis of imipramine & doxepin.

UNIT – V

- 10 Write the mechanism of action, synthesis & uses of lignocaine.

OR

- 11 Explain in detail adjuvant to local anaesthetics.
