

Code: 13R00501

R13

B.Pharm III Year I Semester (R13) Supplementary Examinations November 2017

MEDICINAL CHEMISTRY – I

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

1 Answer the following: (10 X 02 = 20 Marks)

- Define partition – coefficient.
- What is chelation? Give example.
- Give example of neuromuscular blockers.
- Write the synthesis of prazosin?
- Write the structure and uses of salbutamol.
- Write the examples of anti – psychotics.
- Write any two examples of methylxanthines.
- Write the structure and uses of doxapram.
- Explain the SAR of esters in brief.
- Give examples of inhalation anaesthetics.

PART – B

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

UNIT – I

2 Explain hydrogen bonding in relation to biological activity.

OR

3 Write a note on solubility with respect to biological activity.

UNIT – II

4 Explain the chemistry and metabolism of neurotransmitters.

OR

5 Define and classify anti- cholinergic agents. Outline the synthesis of dicyclomine.

UNIT – III

6 Explain in detail SAR of benzodiazepines.

OR

7 Define and classify anticonvulsants with examples. Outline the synthesis of phenytoin.

UNIT – IV

8 Define and classify anti – depressants with examples. Write the mechanism of action of tricyclic antidepressants.

OR

9 Explain in detail SAR of tricyclic antidepressants.

UNIT – V

10 Define and classify general anaesthetics with examples and outline the synthesis of thiopental sodium

OR

11 Write a note on local anaesthetics outline the synthesis of procaine.
