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Code: 15R00501

## B.Pharm III Year I Semester (R15) Regular Examinations November 2017

## **MEDICINAL CHEMISTRY – I**

Time: 3 hours Max. Marks: 70

## PART - A

(Compulsory Question)

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- 1 Answer the following:  $(10 \times 02 = 20 \text{ Marks})$ 
  - (a) Write a note on chelation.
  - (b) Explain how the steric features of drugs affect the biological activity.
  - (c) Write the structure and uses of acetylcholine.
  - (d) Name four neuromuscular blocking agents.
  - (e) What are anticonvulsants? Give examples.
  - (f) Write the structure and mechanism of action of glutethimide.
  - (g) What are MAOIs?
  - (h) Define analeptics and name two analeptic drugs.
  - (i) What are general anaesthetics and classify them?
  - (j) Write the structure and mechanism of action of lignocaine.

## PART - B

(Answer all five units,  $5 \times 10 = 50 \text{ Marks}$ )

UNIT – I

2 Describe about enzyme stimulation and enzyme inhibition in relation to concentration of the substrate.

OR

3 Illustrate Phase-I and Phase-II reactions of drug metabolism with suitable examples.

UNIT (II

What are sympathomimetic agents? Classify sympathomimetics with examples and write one structure for each group.

OR

Write a note on reversible cholinesterase inhibitors. Outline the synthesis of dicyclomine.

UNIT – III

What are antipsychotics? Give their mechanism of action. Classify them with examples. Write the SAR of phenothiazines.

**OR** 

What are anticonvulsants? Classify them with two examples of each class. Explain the method of synthesis of phenytoin.

UNIT – IV

8 Define anti-depressant drug? Explain about the SAR of tricyclic antidepressants.

OR

- 9 Write the structure and uses of the following:
  - (a) Doxapram.
  - (b) Tranylcypromine.
  - (c) Lysergic acid.
  - (d) Fluoxetine.

UNIT – V

10 Classify general anaesthetics and write one structure for each group. Explain about Meyer-overton theory.

OR

11 Describe about the adjuvants used along with local anaesthetics and state reasons for the same.

Write the structure of cocaine and lignocaine.

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