

www.FirstRanker.com

www.FirstRanker.com

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)

- 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.

Www FirstRanker.com