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Total No. of Printed Pages: [1]

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B. Pharmacy (Semester – 5th)
MEDICINAL CHEMISTRY-II
Subject Code: BPHA1538
Paper ID: [170124]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section – A

(2 marks each)

- Q1. Attempt the following:
- a) Give structure and uses of diphenhydramine hydrochloride.
 - b) Give structure and uses of cimetidine.
 - c) Classify diuretics with example of each.
 - d) Write synthesis of nitroglycerine.
 - e) Describe uses of phenytoin sodium and its side effects.
 - f) Give structure and uses of warfarin.
 - g) Draw structure of testosterone.
 - h) What are functions of progesterone?
 - i) Classify antidiabetic agents with example.
 - j) Draw structure and give uses of lignocaine.

Section – B

(5 marks each)

- Q2. Mention various types of histamine receptors along with their distribution and functions in human body.
- Q3. Define calcium channel blockers? What are their uses? Draw structures of amlodipine and felodipine.
- Q4. Discuss the SAR of digitoxin class of drugs. Give synthesis of disopyramide phosphate.
- Q5. Give classification of thyroid drugs along with SAR of any one category.
- Q6. Write a note on SAR of local anesthetics.

Section – C

(10 marks each)

- Q7. What are alkylating agents? Discuss SAR of alkylating agents along with synthesis of meclizolam.
- Q8. Give a detailed discussion on antihypertensive drugs along with SAR studies of any one class.
- Q9. Elaborate nomenclature, stereochemistry and metabolism of steroids. Give structures of tolbutamide and dibucaine.