Printed Pages: 01 **Sub Code: BP501T**

Paper Id: 238242 **Roll No.** | | | | | | | | | | |

B PHARM
(SEM V) THEORY EXAMINATION 2022-23
MEDICINAL CHEMISTRY-II

Time: 3 Hours ***Total Marks: 75***

Note: Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. **10 x 2 = 20**

(a) Describe the role of Histamine in human body.

(b) Discuss the synthesis of Mercaptopurine.

(c) Give the structure of diphenhydramine.

(d) Describe the synthesis of acetazolamide.

(e) Discuss the mechanism of action and uses of Phenytoin as antiarrhythmic drug.

(f) Define the role of Digoxin in CHF.

(g) Describe the mechanism of action and use of methotrexate.

(h) Write the structure and mechanism of action of Mifepristone.

(i) Give the synthesis of Tolbutamide

(j) Define oral anticoagulants with examples.

SECTION B

2. Attempt any *two*parts of the following: **2 x 10 = 20**

(a) Classify antineoplastic agents with suitable structures, mechanism and uses.

(b) What are antidiabetic agents? Discuss the structure activity relationship of sulfonylureas with suitable examples and structures.

(c) Demonstrate antihypertensive drugs. Explain in detail about structures and mechanism of action of ACE inhibitors

SECTION C

3. Attempt any *five*parts of the following: **5 x 7 = 35**

(a) Explain in detail about nomenclature and stereochemistry of steroids.

(b) Classify different types of local anesthetics. Demonstrate in detail about benzoic acid derivatives.

(c) Explain thyroid and antithyroid drugs with structures and uses.

(d) Classify antiarrhythmic drugs. Describe in detail about structures and mechanism ofaction of drugs belonging to class I.

(e) Classify and explain in detail anti-hyperlipidemic agents

(f) Discuss the structure activity relationship of proton pump inhibitors with mechanism of action,uses and suitable structures.

(g) Describein detail corticosteroids. Give mechanism of action and uses of cortisone and prednisolone.