Printed Pages: 01 **Sub Code: BP-501T**

Paper Id: 231121 **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) Give the synthesis of Cimetidine.
(b) State the mechanism of action and uses of Methotrexate.
(c) What are anti-anginal drugs? Outline the structure of Nitroglycerin.
(d) Give the synthesis and uses of Furosemide.
(e) Name and give structures of any two drugs used in Congestive Heart Failure.
(f) State the importance of anticoagulants.
(g) Write the structure and uses of Testosterone.
(h) Discuss mechanism of action and uses of Sildenafil.
(i) Outline the synthesis of benzocaine.
(j) State the mechanism of action and uses of metformin.

SECTION B

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

(a) Classify anti-neoplastic agents in detail. Give the synthesis of Mechlorethamine.

(b) Discuss SAR of local anaesthetics.

(c) What are antihypertensive agents? Classify them and give mode of action and uses of methyldopate hydrochloride.

SECTION C

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

(a) Discuss SAR of Thiazide Diuretics. Outline the synthesis of Chlorthiazide.

(b) Detail about histamine receptors and their distribution in human body. Detail about H2-antagonists.

(c) Illustrate the classification of antihyperlipidemic agents and discuss mechanism of action of HMG-CoA reductase inhibitors.

(d) Discuss nomenclature and stereochemistry of steroids.

(e) Classify antidiabetic agents. Discuss SAR of Sulfonylureas and give synthesis of Tolbutamide.

(f) Discuss mode of action and synthesis of any two: (i) Disopyramide phosphate (ii) Warfarin (iii) Dibucaine

(g) Discuss in detail classification of antithyroid drugs.

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