Sub Code:BT501T

Paper Id: 150716 Roll No:

B. PHARM
(SEM-V) THEORY EXAMINATION 2019-20
MEDICINAL CHEMISTRY-II

Time: 3 Hours *Total Marks: 75*

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

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

a. Draw structure and write uses of diphenhydramine hydrochloride.

b. Write mechanism of action of methotrexate.

c. Draw structure and write mechanism of action of verapamil.

d. Draw the structure and uses of loop diuretics drugs.

e. Discuss mechanism of action and uses of lovastatin.

f. Write a short note on digitoxin.

g. Write mechanism of action and draw structure of sildenafil.

h. Discuss the advantages of amide local anesthetics over ester local anesthetics.

i. Write a short note on thiazolidinediones.

j. Discuss about metabolic pathway of insulin.

SECTION B

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

a. Write the SAR and mechanism of action of H_2 receptor antagonists.

b. Write the synthesis and MOA of Acetazolamide.

c. Classify antianginal drug. Give the synthesis and SAR of isosorbide dinitrite.

SECTION C

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

a. Give the SAR and synthesis of disopyramide phosphate.

b. Classify anticoagulants. Write the SAR and synthesis of warfarin.

c. Classify antithyroid drugs and write a detailed note on propylthiouracil.

d. Classify sulphonyl ureas and biguanides derivative. Write SAR of tolbutamide.

e. Write the structural classification of local anesthetics, write the mechanism of benzocaine.

f. Write the SAR and mechanism of action of meclorethamine.

g. Write the structural classification of oral contraceptives.

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