

Roll No.

Sub Code: BP501T

B PHARM (SEM-V)
THEORY EXAMINATION 2021-22
MEDICINAL CHEMISTRY-II

Time: 3 Hours

Total Marks: 75

Note: Attempt all Sections.

SECTION A

Very Short Answer (Attempt all questions)

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

Short Answer (Attempt any 5 questions)

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 meclizine.
- g. Write the structural classification of oral contraceptives.

SECTION C

Long Answer (Attempt any 2 questions)

2 x 10 = 20

- a. Write the SAR and mechanism of action of H₂ receptor antagonists.
- b. Write the synthesis and MOA of Acetazolamide.
- c. Classify antianginal drug. Give the synthesis and SAR of isosorbide dinitrate.