

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<sub>2</sub> 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 meclizethamine.
  - g. Write the structural classification of oral contraceptives.