Roll No.....

CHE-554 DRUGS AND PHARMACEUTICALS

M.Sc. Chemistry (MSCCH-12/13/16/17)

Second Year, Examination-2020

Time Allowed : 2 Hours Maximum Marks : 80

Note: This paper is of Eighty (80) marks divided into Two (02) sections A and B. Attempt the question contained in these sections according to the detailed instructions given therein.

Section-A

(Long Answer Type Questions)

Note: Section-'A' contains Five (05) long answer type questions of twenty (20) marks each. Learners are required to answer any two (02) questions only. $(2\times20=40)$

- 1. Discuss the development of cimetidine by taking neurotransmitters histamine as lead.
- 2. What is the Deconvolution? Explain the methods involved in the Deconvolution.
- Give the classification of Cephalosporin drugs.
 Explain it by giving one example of each.
- 4. What is the importance of carbonic anhydrase? Explain the carbonic anhydrase inhibition.
- 5. Formulate the synthesis of (S) Naproxen.

Section-B

(Short answer type questions)

- Note: Section-B Contains Eight (08) short answer type questions of Ten (10) marks each. Learners are required to answer any four (04) questions only. (4×10=40)
- 1. Write an account on structure activity relationship studies of Sulphonamides.
- 2. Explain briefly about the Houghton's Tea Bag procedure.

- 3. Define the resin? What are the resins used in combinatorial synthesis.
- 4. Write the synthesis of the trimethoprin. Discuss its mechanism of action.
- 5. What are the Vaccines? Explain its importance.
- 6. What are DNA intercalating agents? Explain the mechanism of action.
- 7. What are Chiral drugs? Explain their importance.
- 8. Write short note on sodium channels and Potassium channels.
