

**P-90**

Total Pages : 3

Roll No. ....

## **MCH-609**

### **Drugs and Pharmaceuticals-II**

M.Sc. Chemistry (MSCCH)

4th Semester Examination, 2023 (June)

**Time : 2 Hours]**

**[Max. Marks : 35**

**Note :** This paper is of Thirty Five (35) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. Candidates should limit their answer to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

### **SECTION-A**

#### **(Long Answer Type Questions)**

**Note :** Section 'A' contains Five (05) long answer type questions of Nine and Half ( $9\frac{1}{2}$ ) marks each. Learners are required to answer any Two (02) questions only.  
( $2 \times 9\frac{1}{2} = 19$ )

- 1.** What is the importance of carbonic anhydrase? Explain the carbonic anhydrase inhibition.

2. Write an account on sodium channels and potassium channels.
3. Formulate the synthesis of (S) ibuprofen.
4. What are the quality control methods in drug development.
5. What is the importance of proton pump? Explain the proton pump inhibition.

### **SECTION-B**

#### **(Short Answer Type Questions)**

**Note :** Section 'B' contains Eight (08) short answer type questions of Four (04) marks each. Learners are required to answer any Four (04) questions only. (4×4=16)

1. Write the synthesis of Methyl Dopa.
2. What are chiral drugs? Explain its importance.
3. Write in brief the importance of radioactive isotopes in medicinal chemistry.
4. Write a note on Chiral lanthanide shift reagents.
5. What are vaccines? Explain its importance.

6. What are immunosuppressing agents? Give suitable examples.
  7. What is genetic engineering? Explain.
  8. Write a note on general anesthetics.
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