

A-1001

Total Pages : 3

Roll No.

MCH-609

Drugs and Pharmaceuticals-II

M.Sc. Chemistry (MSCCH)

Examination 2026 (Feb.)

Time: 02:00 hrs

Max. Marks: 35

Note : This paper is of Thirty Five (35) marks divided in to two (02) Section A and B. Attempt the questions contained in these sections according to the detailed instructions given therein. *Candidates should limit their answers 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.

($2 \times 9\frac{1}{2} = 19$)

P.T.O

A-1001

1. Classify histamine receptors. Name any two drugs acting as H₂ histamine receptors antagonists and write their structures.
2. What is genetic engineering? Explain
3. How the NMR and UV spectroscopy useful for drugs analysis?
4. What is the importance of ACE? Explain the ACE inhibition.
5. What are drugs? Explain the used of drugs as the adrenergic stimulants and adrenergic blockers?

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.

(4x4=16)

1. What are the vaccines? Explain its importance.
2. Write short notes:
 - a) Synthesis of ibuprofen
 - b) Synthesis of indinavir sulfate.
3. What are immune suppressing agents?
4. What is Preffers rule?

5. Write a short notes on fermentation production of amino acid and vitamins.
6. How mass spectroscopy is used in metabolic studies of drugs.
7. What are quality control methods in drugs development?
8. How will you obtain β -lactam antibiotics from the Fermentation method?
