

DEPARTMENT OF PHARMACEUTICAL SCIENCES & TECHNOLOGY

BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(Internal Assessment I)

CLASS: BPHARM
BRANCH: PHARMACY

SEMESTER: V
SESSION: MO 2024

SUBJECT: BP501T MEDICINAL CHEMISTRY II

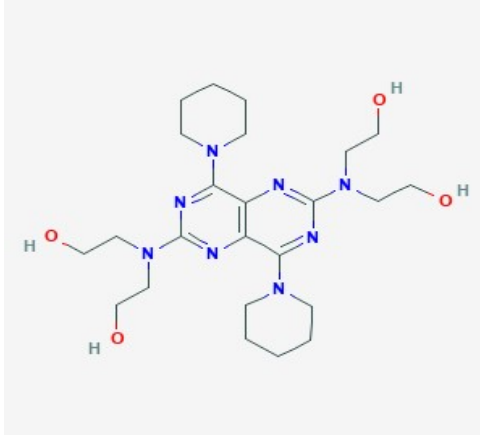
TIME: 2.00 Hour

FULL MARK: 30

PART I

A. Objective type questions(Answer all questions) (5 x02=10 marks)

1. Histamine was synthesized in _____ and its IUPAC name is _____
2. _____ and _____ are strained ring systems in alkylating agents as antineoplastics
3. Draw the structure with numbering for the given IUPAC nomenclature: 2-(3,4-dimethoxyphenyl)-5-[2-(3,4-dimethoxyphenyl)ethyl-methylamino]-2-propan-2-ylpentanenitrile
4. Number the given structure and write the IUPAC nomenclature for the same:



5. Write the structure of active metabolites of Glyceryltrinitrate.

PART II

B. Long Answers(Answer any one out of two) (01x10=10 marks)

1. Discuss the development of Cimetidine along with the synthesis of Cimetidine
2. Discuss the SAR of 1,4-dihydropyridine class of calcium channel blockers in detail with suitable structures

PART III

C. Short Answers(Answer any two out of three) (02x05=10 marks)

1. Classify antihistaminics with one example from each class
2. Describe the synthesis of (i) Cisplatin (ii) Thiotepa
3. With suitable schematic discuss the mode of action of different classes of vasodilators

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