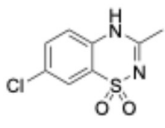
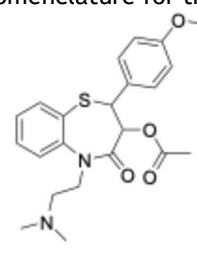


**DEPARTMENT OF PHARMACEUTICAL SCIENCES & TECHNOLOGY**

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

<b>CLASS: BPHARM</b>		<b>SEMESTER: V</b>
<b>BRANCH: PHARMACY</b>		<b>SESSION: MO/2025</b>
<b>SUBJECT: BP501T MEDICINAL CHEMISTRY II</b>		
<b>TIME: 2.00 Hour</b>		<b>FULL MARK: 30</b>

**PART I**

A. Objective type questions (Answer all questions) Or Multiple type questions (Answer all questions)	(5 x 02 = 10 marks) (10 x 01 = 10 marks)
1. Histamine is also known as _____	
2. Histamine receptors are known as _____ receptors	
3. Write the mode of action for the following drugs: (a) Dipyridamole (b) Reserpine	
4. Draw the structure for the IUPAC nomenclature given below: (a) dimethyl 2,6-dimethyl-4-(2-nitrophenyl)-1,4-dihydropyridine-3,5-dicarboxylate (b) 1-[2-[[[(1-ethoxy-1-oxo-4-phenylbutan-2-yl)amino]propanoyl]pyrrolidine-2-carboxylic acid	
5. Write the IUPAC nomenclature for the following drugs:	
 <p>(a)</p>	 <p>(b)</p>

**PART II**

B. Short Answers (Answer any two out of three)	(02x05=10 marks)
1. Classify antihistaminics	
2. Write the synthesis of (i)Diphenhydramine (ii)Clemastine	
3. Enumerate the synthetic scheme of Methyldopate	

**PART III**

C. Long Answers (Answer any one out of two)	(01x10=10 marks)
1. Discuss about (i)H <sub>2</sub> antagonists (ii)Proton pump inhibitors with proper structures of both (i) and (ii)	
2. Discuss in detail the structure activity relationship study on ACE inhibitors	

: : : : 16/09/2025 : : : : M