



**PPB-161201701050300** Seat No. \_\_\_\_\_

**M. P. M. (Sem. V) (CBCS) Examination**

November / December - 2018

**Pharmaceutical Chemistry - VI**

*(Medicinal Chemistry - I)*

Time : 3 Hours]

[Total Marks : 80]

**Instructions :** (1) Attempt three questions from each section.  
(2) Question no. 1 and 5 are compulsory.  
(3) Figures to the right indicate full marks for the respective question.

**SECTION - I**

<b>1</b>	Explain the following terms : (any <b>seven</b> )	<b>14</b>
(1)	Geometrical isomerism	
(2)	Mucolytics	
(3)	Acute bronchitis	
(4)	Antacids	
(5)	Prokinetics	
(6)	Anti-diarrheals	
(7)	Irritable bowel syndrome	
(8)	Expectorant	
(9)	Anti-emetics	
(10)	Laxative	
<b>2</b>	(a) Write an informative note on cholinergic agents. Explain the SAR of Parasympathomimetics.	<b>7</b>
(b)	Write the stating materials and detail synthesis of Omeprazole and Ranitidine with IUPAC name.	<b>6</b>
<b>3</b>	(1) Explain in details about the theories of receptors. (2) Write a short note on Eicosanoids.	<b>7</b>
<b>4</b>	(1) Enumerate the physicochemical properties affecting biological activity. Explain Hydrogen bonding properties, Partition coefficient, Protein binding and Redox potential in detail. (2) Classify the drugs which block the interaction of noradrenaline with receptor.	<b>7</b>

## SECTION - II

**5** Answer the following questions : (any **two**) **14**

- (1) Define adrenergic agents. Classify them with examples.
- (2) Explain PPIs in detail with their mechanism of action.
- (3) Write a note on Eicosanoids Approved for Human Clinical use.

**6** (1) How conformers affect biological activity ? Classify and explain Bio-isosterism with example. **7**

(2) Write a note on Ganglionic blockers. **6**

**7** (1) What is Asthma ? Explain Anti-asthmatic drugs in detail. **7**

(2) Define Medicinal Chemistry with its importance in drug discovery. **6**

**8** (1) Enlist various histaminic receptors. Discuss neurochemistry of histamine. **7**

(2) Outline synthesis and uses of Cetirizine. **6**

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