



**HEA-014-003504**

Seat No. \_\_\_\_\_

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

November / December – 2017

**Pharmaceutical Chemistry - VII**

*(Medicinal Chemistry - I)*

**Faculty Code : 014**

**Subject Code : 003504**

Time : 3 Hours]

[Total Marks : 80

- Instructions :** (1) Attempt three questions from each section.  
(2) Questions 1 and 5 are compulsory.  
(3) Figures to the right indicates full marks for the respective question.

**Section - I**

- 1** Explain the following terms : (any seven) **14**
- (1) Asthma
  - (2) Carminative
  - (3) Cough
  - (4) Decongestants
  - (5) Eicosanoids
  - (6) Irritable bowel syndrome
  - (7) Peptic ulcer
  - (8) Prokinetics
  - (9) Wheezing
  - (10) Redox potential
- 2** (1) What are sympathomimetic agents? Classify them **7**  
based on chemical structure, mechanism of action,  
and its therapeutic use.
- (2) Write a note on bioisosterism and protein binding. **6**

- 3 (1) Give SAR of parasympatholytic agents. 7  
(2) Write a note on anti-secretory agents. Give synthesis of Ranitidine. 6
- 4 (1) Write a note on types of receptors. 7  
(2) Give synthesis of diphenhydramine and Cetrizine. 6

## Section - II

- 5 Answer the following questions : (any two) 14  
(1) Write a note on hydrogen bonding and ionization.  
(2) Define parasympathomimetic agents. Classify them with suitable examples. Give SAR of Acetylcholine agonists.  
(3) Write a note on antihistaminic agents.
- 6 (1) Explain SAR of phenylethanolamines. Give synthesis of dicyclomine. 7  
(2) Explain Eicosanoids biosynthesis. 6
- 7 (1) Write a note on antiasthmatic agents. 7  
(2) Explain treatment of peptic ulcer. 6
- 8 Answer the following :  
(1) Write a note on anti-diarrheal agents. Give synthesis of omeprazole. 7  
(2) Explain anti-tussive and mucolytic agents with suitable examples. 6