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JBM-1612010701050300 Seat No. _____

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

December - 2019

Pharmaceutical Chemistry - VI

(Medicinal Chemistry - I)

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 indicate full marks for the respective question.

SECTION - I

1 Answer the following questions : (any **seven**) **14**

(1) Enlist Physiochemical properties of drug molecules influencing biological activity.
(2) Explain Mucolytics.
(3) Give examples of proton pump inhibitors.
(4) Explain the term: Carminative.
(5) What are neuromuscular blocking agents? Explain them with suitable examples.
(6) Give informative note on ganglion blockers.
(7) Give synthesis of adrenaline.
(8) Write a note on H2-Receptor antagonists.
(9) Explain: Decongestants.
(10) What are prokinetics?

2 (1) Define: Parasympathomimetic agents. Classify them with suitable examples. Give SAR of Ach receptor agonists. **7**

(2) What are Eicosanoids? Explain its biosynthesis. **6**

3 (1) What are antihistaminics? Classify them with suitable examples. **7**

(2) Write a note on Bioisosterism. **6**

4 (1) What are parasympatholytic agents? Classify them with suitable examples. Give SAR of Ach receptor antagonists. **7**

(2) Write a note on antiulcer agents. **6**

SECTION - II

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

(1) Write a note on sympathommetics.

(2) Explain eicosanoids approved for human clinical use.

(3) Differentiate: ANS and SNS. Explain cholinergic receptors.

6 (1) Explain protein binding and hydrogen bonding. **7**

(2) Explain anti-asthmatics and Respiratory stimulants. **6**

7 (1) Give informative note on sympatholytics. **7**

(2) Give informative note on anti-diarrheals and antispasmodics. **6**

8 Answer the following :

(1) Give synthesis of diphenhydramines and chlorpheniramine. **7**

(2) Give synthesis of neostigmine and dicyclomine. **6**
