

Total No. of Questions : 6]

SEAT No. :

P3177

[Total No. of Pages : 3

[5245]-703

Final Year B. Pharmacy (Semester - VII)

MEDICINAL CHEMISTRY - III

(2013 Pattern)

Time : 3 Hours]

[Max. Marks :70

Instructions to the candidates:

- 1) *Attempt all questions.*
- 2) *Figures to the right indicate full marks.*
- 3) *Answers to the two sections should be written in separate books.*

SECTION - I

Q1) Outline the mechanism of action and give the classification with examples of NSAID's. Give an account including SAR of pyrazolidinediones as analgesics. **[10]**

OR

Give the structural features of histamine receptor and discuss the structure modifications of H₂ receptor antagonists.

Q2) Solve any five questions (each question carries 3 marks) : **[15]**

- a. Write a short note on Opioid antagonists.
- b. Give the IUPAC name and sketch the scheme of synthesis of Diclofenac.
- c. Give the SAR of prostaglandins.
- d. Write a note on endogenous opioids.
- e. Write a note on H₃ receptor agonists.
- f. Classify opioid analgesics with examples.
- g. Give the mechanism of action of opioid analgesics.

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Q3) Write short note on any two (each question carries 5 marks) : **[10]**

- a. Give the SAR of steroidal anti-inflammatory agents.
- b. Give a short account of methadones and benzomorphans as analgesics.
- c. Sketch the scheme of synthesis of Ibuprofen and Cetrizine.
- d. Give SAR of meperidines as analgesics.

SECTION - II

Q4) Discuss various GIT disorders. Discuss in brief about drugs used for treatment of peptic ulcer. **[10]**

OR

Discuss in brief about drugs used for treatment of asthma .Add a note on anti-inflammatory steroids used for treatment of Asthma

Q5) Solve any five : **[15]**

- a) Explain the Chemistry, SAR and MOA of Ondansetron.
- b) Outline the synthesis of guaifensin
- c) Discuss in brief about Xanthine derivatives used for asthma
- d) Give the drugs used as laxatives with their MOA.
- e) Give the Structure, MOA and therapeutic use of:
 - i) Salmeterol
 - ii) Ambroxol
- f) Write the SAR and MOA opoid antidiarrheals.
- g) What are expectorants. Explain with examples and their MOA.

Q6) Write Short Notes on (Any Two) :

[10]

- a) Antispasmodic agents
- b) Decongestants
- c) Prokinetic drugs
- d) Antitussive agents

