

Total No. of Questions : 6]

SEAT No. :

P2005

[5145]-703

[Total No. of Pages : 2

**Final Year B.Pharmacy
MEDICINAL CHEMISTRY-III
(2013 Pattern) (Semester - VII)**

Time : 3 Hours]

[Max. Marks : 70

Instructions to the candidates:

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*

SECTION - I

Q1) Solve any 1 Question: [10]

Classify antihistamines and discuss H₂ receptor antagonists in details giving their structures & sketch out synthetic route for chlorpheniramine.

OR

Discuss SAR, MOA & chemistry of morphine and write synthesis of Methadone or Propoxyphen.

Q2) Solve any 5 (Each Question carries 3 marks) [15]

- a) Write SAR of pethidine.
- b) Discuss Proton pump inhibitors.
- c) Explain Prostaglandin analogs.
- d) Write a short note on H₁ agonists.
- e) Write a short note on NSAIDS.
- f) Write few drug actions mediated by Eicosanoids.
- g) Write synthesis of any 1: Promethazine or Prolidine.

Q3) Solve any 2 questions (Each carries 5 marks) [10]

- a) Discuss Endogenous opioid peptides & their SAR.
- b) Write synthesis of Ibuprofen and Paracetamol.
- c) Explain importance of tautomerism of Histamine.
- d) Write short note on opioid antagonists.

P.T.O.

SECTION - II

Q4) What is expectorant? Classify drugs used in respiratory tract. Give an account on MOA and therapeutic uses of Expectorants. **[10]**

OR

What is Ulcer? Give classification of drugs used in ulcer. Add a note on Proton pump inhibitor.

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

- a) Give an account on drug used for constipation.
- b) Classify expectorants and antitussives.
- c) Draw synthesis of omeprazole.
- d) Explain antisecretory agents.
- e) Give an account of opioid antidiarrheal drug.
- f) Draw synthesis of Guaifensin.
- g) Explain drugs used in cough.

Q6) Write short note on (any two): **[15]**

- a) Antiemetics
- b) Antispasmodic
- c) Antiasthmatics
- d) Antidiarrheal

