

C.U.SHAH UNIVERSITY

Winter Examination-2018

Subject Name: Pharmaceutical Chemistry-IV (Medicinal Chemistry-I)

Subject Code: 4PS04PCH4

Branch: B. Pharm

Semester: 4

Date: 29/10/2018

Time: 10:30 To 01:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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- Q-1 Attempt the following questions: (14)**
- a) Define Drug Therapy. (1)
 - b) Define Pro Drug. (1)
 - c) Draw structure of Cetirizine. (1)
 - d) Define Receptor. (1)
 - e) Define Carminatives. (1)
 - f) Give structure of Dextromethorphan. (1)
 - g) Define Prokinetics. (1)
 - h) Define Anti-emetics. (1)
 - i) Give examples of Proton Pump inhibitor. (1)
 - j) Define Laxatives. (1)
 - k) Define Solubility. (1)
 - l) Give examples of Anti-Diarrheal agents. (1)
 - m) Define Decongestant. (1)
 - n) Define Mucolytic. (1)

Attempt any four questions from Q-2 to Q-8

- Q-2 (14)**
- a) What is peptic ulcer? Explain briefly on H₂- antagonists. (7)
 - b) Explain in detail Protein binding of drug molecules. (7)
- Q-3 (14)**
- a) Enumerate various classes of drugs that act on respiratory tract and explain about Expectorant and Antitussive agents. (7)
 - b) Write a brief note on Radiological contrast media. Give synthesis of Diphenoxylate. (7)



- Q-4** (14)
- a** What is antidiarrheal agent? Classify and explain antidiarrheal agents with examples. (7)
- b** Classify various classes of drugs acting on G.I. Tract and write synthesis of omeprazole and its use. (7)
- Q-5** (14)
- a** Write the history, discovery and biosynthesis of eicosanoids. (7)
- b** Give a brief note on Autocoids. (7)
- Q-6** (14)
- a** Explain various physio-chemical properties of drug molecules influencing biological activities. (7)
- b** Write various anti-asthmatic agents with examples and their mechanism of action. (7)
- Q-7** (14)
- a** Classify and explain Bioisosterism with example. (7)
- b** Write detail procedures of Drug metabolism. (7)
- Q-8** (14)
- a** Explain in brief Drug –Receptor interactions. (7)
- b** Write brief note on Antispasmodics and drug modifying intestinal motility. (7)

