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Total Number of Pages: 01

**B.Pharma.
PH.5.5**

**5th Semester Back Examination 2017-18
PHARM.CHEMISTRY - V (MED. CHEM - I)**

BRANCH : B.Pharma.

Time: 3 Hours

Max Marks: 70

Q.CODE: B121

**Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.**

- Q1 Answer the following questions : (2 x 10)**
- a) What is geometric isomerism? Give example.
 - b) Classify adrenergic receptor mentioning atleast one agonist.
 - c) Mention the factors involved in drug-receptor interaction.
 - d) Mention the postulates of the Hansch analysis.
 - e) Define autacoids with example.
 - f) What are Eicosanoids?
 - g) Write down the structures of Chlorpheniramine and Ibuprofen.
 - h) Define the term Molecular connectivity Index?
 - i) Write down the structures of any two NSAIDs.
 - j) Define the term partition coefficient.
- Q2 a) Classify sympathomimetics and discuss their therapeutic uses. (5)**
b) Write down the synthetic scheme of Salbutamol and Phenylephrine. (5)
- Q3 a) How do cholinergics interact with binding sites, discuss with an example. (5)**
b) Discuss on SAR of cholinergic drugs. (5)
- Q4 a) Define and classify antihistamine with examples. (5)**
b) Outline the mode of action and SAR of classic antihistamines (5)
- Q5 a) Discuss synthesis of Chlorpheniramine, Promethazine and Cimetidine. (5)**
b) Write a note on Eicosanoids. (5)
- Q6 a) What are the pathophysiology of inflammation, mention the cardinal symptoms of inflammation. (5)**
b) Outline the synthesis and mode of action of the following. (5)
Phenylbutazone, Diclofenac sodium.
- Q7 Discuss in brief the antipyretic and analgesic drugs and mention their mode of action and SAR of Salicylic acid derivatives & heteroarylacetic acid derivatives. (10)**
- Q8 Write short answer on any TWO : (5 x 2)**
- a) Antiulcer drugs.
 - b) Neuromuscular blocking agents.
 - c) Physicochemical aspects of drug design.
 - d) Free wilson model and Hansch analysis.