

26/5  
10-1  
Sun-2023

Seat Number 

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CJ-32

BP-402T  
Medicinal Chemistry-I  
(724402)

Total Pages : 2]  
Time : 3 Hours

Max. Marks : 75

- Note : (1) Do not write anything on question paper except Seat No.  
(2) Answer sheet should be written with blue ink only.

1. Solve the following questions : 20
- (a) Why Acetylcholine is not used in clinical practise ?
  - (b) Write the structure and IUPAC name of Dicyclomine HCl.
  - (c) Define Hypnotics and Sedative.
  - (d) Give the structure of Propranolol and Adrenaline.
  - (e) Write any *two* ideal characteristics of general anaesthetic drug.
  - (f) Write the uses of Morphine.
  - (g) Give the outline synthesis of Halothane.
  - (h) Write metabolism pathway of Aspirin.
  - (i) What are enzymes involved in metabolism of Adrenergic drug ?
  - (j) Define receptor. Enlist the of type of receptor.
2. Solve any *two* only : 20
- (a) Define parasympathomimetic agents. Classify them with example. Write the SAR of Acetylcholine and give the synthesis of carbachol.

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- (b) What is Anti-inflammatory agent ? Write detail classification of it, with example. Write the synthesis of Ibuprofen.
- (c) Explain the various physicochemical properties that influence biological activity.

3. Solve any seven : 35

- (a) Give the classification of Adrenergic drugs with suitable example and briefly explain chemistry of adrenergic agonist.
- (b) Write the synthesis of phenytoin.
- (c) Write a note on dissociative anesthetic.
- (d) Write the MOA of chlorpromazine HCl.
- (e) Briefly explain indirect acting cholinesterase inhibitors.
- (f) Write a note on Diazepam.
- (g) What are phase-I reactions ? Why are phase-I reaction classed as functionalization reactions.
- (h) Write the SAR of atropine sulphate.
- (i) Write a note on narcotic drug.