

W-2022

Seat Number

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BP-402T

PANKH-32

Medicinal Chemistry-I  
(724404)

Total Pages : 2]

Time : 3 Hours

Max Marks : 75

- Note :** (1) Do not write anything on question paper except Seat No.  
(2) Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.  
(3) Students should note, no supplement will be provided.  
(4) All the questions are compulsory.

1. Solve the following :

20

- (i) What is Geometrical Isomerism ?
- (ii) Draw the structure of :
  - (a) Atenolol
  - (b) Prazosin.
- (iii) Define the term hypnotic sedative.
- (iv) Draw the structure :
  - (a) Ibuprofen
  - (b) Mefenamic acid.
- (v) What are General Anesthetic.
- (vi) Write the uses of Pilocarpine.
- (vii) Briefly explain metabolic enzyme of Ach.

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- (viii) What is partition coefficient ?
- (ix) Outline the synthesis of salbutamol.
- (x) Write the ideal properties of General Anaesthetics.

2. Solve any *two* of the following :

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- (i) Describe in detail Phase-I and Phase-II Reaction.
- (ii) What are neurotransmitters ? Classify them with example. Describe the synthesis and release of Acetylcholine.
- (iii) Write the classification of non-narcotic Analgesic agent with example. Discuss the SAR and mechanism of action of Aspirin like drugs.

3. Solve any *seven* of the following :

35

- (i) Write a note on Ionization in detail.
- (ii) Write the synthesis of propranolol.
- (iii) Write a detailed account of the SAR of phenothiazines.
- (iv) Write in detail about different stages of anesthesia.
- (v) Write in detail synthesis of Halothane.
- (vi) Classify Adrenergic drugs with a suitable example.
- (vii) What do you understand by NSAIDS ? Write MOA of Diclofenac sodium.
- (viii) What are cholinesterase inhibitors ? Explain it in detail.
- (ix) Write the SAR of Atropine sulphate.