

Roll No.

Total No. of Pages : 02

Total No. of Questions : 13

B.Pharmacy (Sem.-4)
MEDICINAL CHEMISTRY-I
Subject Code : BP-402T
M.Code : 75844
Date of Examination : 05-07-22

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

1. Explain briefly :

- a. What are Isosteres?
- b. Give two examples of phase I metabolism reactions.
- c. Give the chemical name and structure of one direct adrenergic agent.
- d. What are inhalational anesthetics?
- e. Give structure of any two narcotic antagonist.
- f. Outline the synthesis of phenylephrine.
- g. Which enzymes are responsible for the catabolism of adrenaline?
- h. Write the moa and uses of Glutethenide.
- i. Give the structure and name of any one indirect cholinergic agent.
- j. Which are ultra short acting barbiturates?

SECTION-B

2. Discuss in detail the effect of Acid base properties on drug action.
3. Classify Anticonvulsant agents giving the structure of atleast one drug belonging to eachcategory. Comment upon the SAR, moa and uses of barbiturates class of drugs.
4. Discuss in detail the chemistry of :
 - a. Ring analogs of phenothiazines.
 - b. Benzodiazepines as sedative hypnotics.

SECTION-C

5. Comment upon Phase II metabolism.
6. Outline various steps involved in the synthesis of Mefenamic acid. Discuss its role as an anti-inflammatory agent.
7. Discuss the SAR of Cholinolytic agents.
8. Classify synthetic anticholinergic agents. Give atleast one examples of each class.
9. Write a short note on physicochemical properties of drugs.
10. Explain the chemistry of morphine analogs.
11. Write a short note on narcotic antagonists.
12. Explain the chemistry of beta blockers.
13. Classify Antipsychotics. Suggest their mechanism of action.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.