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Total No. of Pages : 02

Total No. of Questions : 13

B.Pharm (2017 Batch) (Sem.-4)

**MEDICINAL CHEMISTRY-I**

Subject Code : BP-402T

M.Code : 75844

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 the Terms :**

- a. Hydrogen bonding.
- b. Optical activity.
- c. Structure and IUPAC name of Phenytoin.
- d. Chemical structure and therapeutic class of Phenobarbital.
- e. Differentiate between general and partial seizures.
- f. Types of autonomic nervous system.
- g. What do you mean by ultra short acting barbiturates, name two?
- h. Name and give structure of Adrenergic neurotransmitters.
- i. Bioisosterism.
- j. Synthesis of Neostigmine .



**SECTION-B**

2. Give detailed account of anti-inflammatory agents.
3. Synthesis and mechanism of action of two anti-convulsants.
4. Name the neurotransmitters responsible for psychosis. Give the symptoms and discuss any drugs used for its treatment in details.

**SECTION-C**

5. Short note on Inhalation anaesthetics.
6. Synthesis and mechanism of action of Carbacol.
7. Phase II metabolism.
8. Biosynthesis and metabolite of dopamine.
9. Structure activity relationship of Cholinolytic agents.
10. Alpha adrenergic blockers.
11. Factors affecting metabolism.
12. Biosynthesis and physiological role of GABA.
13. Structure and chemical name of morphine and its two related analogues.

**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.**