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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****Q1. Answer briefly :**

- a) What is the mechanism of action and uses of ephedrine?
- b) Define Bioisosteres.
- c) Give the structure of any one urea derivative acting as anticonvulsant agent.
- d) Write a note on catabolism of acetylcholine.
- e) Give the structure and name of alpha blocker having quinazoline moiety.
- f) Name any two NSAIDs. Give their moa.
- g) Outline the synthesis of barbital.
- h) Give the structure of any one reactivator of organophosphate poisoning.
- i) What are dissociative anesthetics?
- j) Give the structure of benzodiazepine derivative acting as anticonvulsant agent.



**SECTION-B**

- Q2. Classify Antipsychotic agents giving the structure of atleast one drug belonging to each category. Comment upon the SAR, moa and uses of phenothiazine class of drugs.
- Q3. Give the chemical name, moa, the synthetic procedure and uses of the following drugs :
- a) Carbamazepine
  - b) Diazepam
- Q4. Discuss in detail the chemistry of :
- a) Morphine analogs
  - b) Ultra short acting barbiturates

**SECTION-C**

- Q5. Comment upon various factors affecting drug metabolism.
- Q6. Outline various steps involved in the synthesis of ibuprofen. Discuss its role as anti-inflammatory agent.
- Q7. Discuss the SAR of benzodiazepines.
- Q8. Classify anticholinergic agents. Give atleast two examples of each class.
- Q9. Write a short note on history and development of medicinal chemistry.
- Q10. Discuss the biological importance and chemistry of hydantoin derivatives.
- Q11. Write a short note on narcotic antagonists.
- Q12. Explain the chemistry of AchE inhibitors.
- Q13. Classify Anticonvulsants. 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.**