

Total No. of Questions : 6]

SEAT No. :

**P1998**

**[5145]-603**

[Total No. of Pages :2

**T.Y.B.Pharmacy**  
**MEDICINAL CHEMISTRY - II**  
**(2013 Pattern) (Semester - VI)**

*Time : 3 Hours]*

*[Max. Marks : 70*

*Instructions to the candidates:*

- 1) *Draw structures wherever necessary.*
- 2) *All questions are compulsory.*
- 3) *Answers to the two sections should be written in separate answer books.*
- 4) *Figures to the right indicate full marks.*

**SECTION - I**

**Q1)** What are anti hyperglycemic agents? Describe SAR, mode of action of sulfonyl ureas. Outline synthesis of any one of them. **[10]**

OR

Discuss SAR, mode of action & uses of barbiturates & Draw synthesis of Thiopental sodium. **[10]**

**Q2)** Answer any five **[15]**

- a) Classify local anesthetics with one structure of drug from each class.
- b) Write a note on Hydantoin derivatives in treatment of epilepsy.
- c) Draw synthesis of diazepam.
- d) Explain different types of reduction reactions in drug metabolism.
- e) Describe any two drugs used as respiratory stimulants.
- f) Write structure MOA & use of metformin.
- g) Classify general anesthetics? Add a short note on ketamine.

*P.T.O.*

**Q3) Answer any two. [10]**

- a) Classify sedative hypnotic drugs & add a note on benzodiazepines.
- b) Write a note on non barbiturates sedatives & hypnotics.
- c) Explain importance of metabolism study in new drug discovery.
- d) write a note on general structural features of anticonvulsant drugs.

**SECTION - II**

**Q4) Discuss SAR of Phenothiazines with liberal use of examples and structures. [10]**

OR

Write SAR, mode of action and therapeutic uses of benzodiazepines. [10]

**Q5) Attempt any Five. [15]**

- a) Discuss chemistry of succinimides.
- b) “Carbidopa is prescribed with Levodopa”. Justify the statement.
- c) Write structures of any two Butyrophenones.
- d) Discuss metabolism of Metformin.
- e) Write synthesis of Fluoxetine.
- f) Write synthesis of Haloperidol.
- g) Justify use of MAO-B inhibitors over MAO-A inhibitors in Parkinson’s treatment.

**Q6) Attempt any Two: [10]**

- a) Write short note on anti migraine agents.
- b) Justify the use of anticholinergic agents to treat Alzheimer’s disease. And classify anti-Alzheimer’s agents with structure of one drug from each class.
- c) Discuss phase I and phase II metabolic reactions giving suitable examples.
- d) Classify, Write structures and Explain the agents used for organ function tests.

