

**PURUS-VI (OLD COURSE) : WINTER - 2016**  
**SUBJECT : MEDICINAL CHEMISTRY-II**

Day : Friday  
Date : 11/11/2016

Time : 10.00 AM TO 01.00 PM  
Max. Marks : 80

**N.B.:**

- 1) Q. No. 1 and Q. No. 5 are **COMPULSORY**. Out of the remaining attempt any **TWO** questions from Section-I and any **TWO** questions from Section-II.
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.

**SECTION-I**

- Q.1** Attempt any **FIVE** questions of the following: (10)
- a) Outline synthesis of Acetazolamide.
  - b) Outline synthesis of Imipramine.
  - c) Outline synthesis of haloperidol.
  - d) Classify antidepressant drugs.
  - e) Explain biogenic theory of depression and antidepressant action.
  - f) Explain osmotic diuretics with example.
- Q.2** a) Describe in detail SAR of Benzodiazepines. (10)  
b) Explain physiology of sleep and mechanism of action of barbiturates. (05)
- Q.3** a) Classify diuretics along with examples. Write SAR of thiazide diuretics. (10)  
b) Outline synthesis of chlorthiazide and Furosemide. (05)
- Q.4** Write short notes on any **THREE** of the following: (15)
- a) SAR of phenothiazines
  - b) SAR of barbiturates
  - c) Anxiolytics
  - d) Anticonvulsants.

**SECTION-II**

- Q.5** Attempt any **FIVE** questions of the following: (10)
- a) Outline synthesis of Benzocaine.
  - b) Outline synthesis of Nikethamide.
  - c) Outline synthesis of procaine.
  - d) Give therapeutic applications of CNS stimulant.
  - e) Define conjugation reaction with example.
  - f) Write two structures of drugs used as local anaesthetics.
- Q.6** a) What do you mean by drug metabolism? Comment on Phase-I reaction in detail. (10)  
b) Describe the factors influencing metabolic pathways of the drug. (05)
- Q.7** a) Write detail note on Analeptics. (10)  
b) What is preanesthetic medication? Explain with example. (05)
- Q.8** Write short notes on any **THREE** of the following: (15)
- a) Factors affecting metabolism
  - b) Respiratory stimulants
  - c) Hallucinogens
  - d) Mode of action of local anaesthetics

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