

**T.Y.B.PHARM. SEMESTER-VI (2011 Course) : WINTER - 2018**

**SUBJECT: MEDICINAL CHEMISTRY – II**

Day : Monday  
Date : 12/11/2018

**W-2018-4134**

Time : 10.00 A.M. TO 01.00 P.M.  
Max. Marks : 80

**N.B.:**

- 1) **Q.No.1 and Q.No.5 are COMPULSORY.** Out of the remaining questions attempt **ANY TWO** questions from each section.
- 2) Answers to 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** of the following. (10)
- i) Draw structure of any two ultra short acting barbiturates.
  - ii) State various theories of general anesthetics.
  - iii) Classify respiratory stimulants.
  - iv) Give structure, IUPAC and two uses of Halothane & Thiopental Sodium.
  - v) Write types of epilepsies with symptoms.
  - vi) Write therapeutic uses of barbiturates.
- Q.2** a) Classify sedatives & hypnotics with chemistry & SAR of sedatives hypnotic agents. (10)  
b) Classify types of metabolism & describe characteristics of Phase I & Phase II with examples. (05)
- Q.3** a) Classify anticonvulsants. Discuss Chemistry & SAR with examples. (10)  
b) Write about Hallucinogens. (05)
- Q.4** Write Short Notes on **Any Three** of the following. (15)
- a) General anesthetics.
  - b) Respiratory Stimulants
  - c) Outline Scheme of synthesis of Ketamine HCl & Barbituric Acid.
  - d) Analeptics.

**SECTION – II**

- Q.5** Attempt **Any FIVE** of the following. (10)
- i) Write synthesis of diazepam.
  - ii) Draw structure IUPAC & category of Lidocaine HCl & Molindone.
  - iii) Mention role of GABA in depression.
  - iv) Write various neurotic disorders with symptoms.
  - v) Draw any two structures of butyrophenones.
  - vi) Write route of administration of local anesthetics.
- Q.6** a) Classify local anesthetics. Discuss chemistry & SAR of Anilide & Para amino benzoic acid derivatives with examples. (10)  
b) Write chemistry of MAO inhibitor with examples. (05)
- Q.7** a) Classify antipsychotics. Explain chemistry & SAR of the agents with examples. (10)  
b) Write a note on Anxiolytics. (05)
- Q.8** Write Short Notes on **Any Three** of the following. (15)
- a) Mechanism of action of local anesthetics.
  - b) Outline synthetic scheme of Doxepin & Chlorpromazine.
  - c) Concept of Prodrug.
  - d) COMT inhibitors.