

T.Y.B.PHARM. SEMESTER-VI (2011 Course) : SUMMER - 2019

SUBJECT : MEDICINAL CHEMISTRY – II

Day : Monday

Time : 10.00 A.M. TO 01.00 P.M.

Date : 22/04/2019

S-2019-4449

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** Give structure, IUPAC and two uses of **Any FIVE** drugs. **(10)**
- i) Isoflurane.
 - ii) Pentobarbital Sodium
 - iii) Nitrazepam.
 - iv) Nikethamide.
 - v) Thiopental Sodium
 - vi) Methobarbital
- Q.2** a) Define metabolism. Classify types of metabolism & describe characteristics of Phase I & Phase II with examples. **(10)**
b) Write about analeptics with its chemistry. **(05)**
- Q.3** a) Classify sedatives & hypnotics with chemistry & SAR of sedatives hypnotic agents. **(10)**
b) Discuss SAR & MOA of anticonvulsants. **(05)**
- Q.4** Write Short Notes on **Any Three** of the following. **(15)**
- a) Hallucinogens.
 - b) Chemistry of general anesthetics.
 - c) Factors affecting metabolism.
 - d) Chemistry of Benzodiazepines.

SECTION – II

- Q.5** Attempt **Any FIVE** of the following. **(10)**
- i) Write MOA of local anesthetics.
 - ii) Define mutual prodrug & Pro-Prodrug.
 - iii) Write synthesis of benzocaine.
 - iv) Write IUPAC & Category of Chlorpromazine & Meprobamate.
 - v) List four important modifications on butyrophenones for optimum activity.
 - vi) Classify anxiolytics.
- Q.6** a) Classify local anesthetics. Discuss chemistry with examples. **(10)**
b) Write SAR of antipsychotics. **(05)**
- Q.7** a) Classify antidepressants. Explain chemistry & SAR of the agents used as antidepressants. **(10)**
b) Write synthetic scheme of Dibucaine & Lignocaine HCl. **(05)**
- Q.8** Write Short Notes on **Any Three** of the following. **(15)**
- a) MAO inhibitors.
 - b) Outline synthetic scheme of Imipramine & Haloperidol
 - c) Routes of administration of Local anesthetics
 - d) Applications of Prodrugs.