

**T.Y.B.PHARM. SEMESTER-VI (2011 COURSE) : WINTER -
2017**

SUBJECT : MEDICINAL CHEMISTRY – II

Day : **Wednesday**
Date : **08/11/2017**

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

W-2017-3837

N. B. :

- 1) **Q. No. 1 and Q.No.5 are COMPULSORY.** Out of remaining solve any **TWO** questions each from **Section – I** and **Section – II**.
- 2) Answers to both sections should be written in the **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.

SECTION – I

- Q.1** Attempt **Any FIVE** questions of the following : **(10)**
- a) Explain REM and NREM.
 - b) Draw structures of any two long acting barbiturates.
 - c) Name xanthine bases used as CNS stimulant and explain their pharmacokinetics.
 - d) Define analeptics with examples.
 - e) Differentiate between local and general anesthetics.
 - f) Outline synthesis of nikethamide with its uses.
 - g) Draw structure of caffeine and amphetamine.
- Q.2** a) What do you mean by drug metabolism comment on Phase I reaction in detail? **(10)**
- b) Write an exhaustive note on sulphate conjugation. **(05)**
- Q.3** a) What are various stages of general anaesthesia. Discuss chemistry of anaesthetics. **(10)**
- b) Classify different types of epilepsies with their symptoms. **(05)**
- Q.4** Write short notes on **Any THREE** of the following : **(15)**
- a) Hallucinating agents
 - b) Benzodiazepines
 - c) Barbiturates
 - d) MOA & Chemistry of anticonvulsants
 - e) Synthesis of Trimethoprim and Diazepam

P.T.O.

SECTION - II

- Q.5** Give structure and mode of action of following drugs Any Five : **(10)**
- a) Write symptoms of depression.
 - b) Outline synthesis of lignocaine.
 - c) List out four important modification on butyrophenones for optimal psychotic action.
 - d) Write metabolism of benzodiazepines.
 - e) Enlist different neurotic disorders.
 - f) Draw any 2 structures of local anaesthetics from anilide group.
 - g) Comment on use of Rauwolfia alkaloids as anti-psychotics.
- Q.6** a) Classify anti-psychotics and discuss its side effects add a note on phenothiazines. **(10)**
- b) How do MAO inhibitors and tri-cyclic antidepressant differ from each other. **(05)**
- Q.7** a) What are local anaesthetic agents classify them with examples. Discuss SAR of procaine type of local anaesthetic agent. **(10)**
- b) Discuss chemistry of succinimides. **(05)**
- Q.8** Write short notes on **Any THREE** of the following : **(15)**
- a) Concept of prodrug
 - b) SAR of phenothiazines
 - c) Mode of action of local anaesthetic
 - d) Mode of action of Neuroleptics
 - e) Outline synthesis of Imipramine & Benzocaine