

SUBJECT: MEDICINAL CHEMISTRY-II

Day: Monday
Date: 22/04/2019

S-2019-4400

Time: 10.00 A.M. TO 01.00 P.M.
Max. Marks: 60

N.B:

- 1) Q. No. 1 and Q. No. 5 are **COMPULSORY**. Out of the remaining attempt **ANY TWO** questions from each Section.
- 2) Answer to the both sections should be written in **SEPARATE** answer book.
- 3) Figures to the right indicate **FULL** marks.

SECTION - I

- Q.1** Attempt **ANY FIVE** of the following: (10)
- a) Why clinically active anesthetics have pka of 8-9.5.
 - b) Write about aromatic hydroxylation.
 - c) Write types of epilepsies with symptoms.
 - d) Outline scheme of synthesis of Ketamine hydrochloride.
 - e) Draw Structure mention category of Trimethadone & Phensuccinamide.
 - f) Draw Structure mention category IUPAC of Lorazepam & Heptabarbital.
- Q.2** a) Discuss classification of sedatives & hypnotic agents. Write SAR & Chemistry with two representative structures of each class. (07)
- b) Write a note on oxidation of aromatic, aliphatic & alicyclic carbons. (03)
- Q.3** a) Classify drugs used as anticonvulsants. Discuss Chemistry & SAR with examples. (07)
- b) Discuss stages of anesthesia with classification of general anesthetics. (03)
- Q.4** Write short notes on **ANY TWO** of the following: (10)
- a) Antialzheimer's Agents.
 - b) SAR of Valproic acid & Succinimides.
 - c) Outline scheme of synthesis of Trimethoprim & Phenytoin.

SECTION - II

- Q.5** Attempt **ANY FIVE** of the following: (10)
- a) Draw Structure mention category of Butamben & Chlorpromazine.
 - b) Comment on mood elevators.
 - c) Enlist different neurotic disorders.
 - d) Draw Structure mention category IUPAC of Molindone & Properidol.
 - e) Outline scheme of synthesis of Diazepam.
 - f) Write MOA of local anesthetics.
- Q.6** a) What are local anesthetics? Classify discuss SAR of lidocaine type of local anesthetics with examples. (07)
- b) Write a note on benzodiazepines as antipsychotics. (03)
- Q.7** a) Classify antidepressants. Discuss chemistry & SAR with examples. (07)
- b) Discuss SAR of butyrophenones. (03)
- Q.8** Write short notes on **ANY TWO** of the following: (10)
- a) Concept of prodrug design.
 - b) Route of administration of local anesthetics.
 - c) Outline scheme of synthesis Haloperidol & Imipramine.