

Roll No

PY - 603**B.Pharmacy VI Semester**

Examination, June 2016

**Pharmaceutical Chemistry - VII
(Medicinal Chemistry - II)***Time : Three Hours**Maximum Marks : 70*

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each questions are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

1. a) Differentiate between local and general anesthetics with suitable examples.
- b) How sedatives drugs help in the management of insomnia.
- c) Discuss the kinetics of drug discuss the structure, mechanism of action and uses of phenobarbitone.
- d) Discuss SAR of morphine as opiod analgesics.

OR

Give chemical classification of antidepressants. Discuss the mechanism of action and side effects of Amitriptyline.

2. a) Define laxative. Enlist two uses of them.
- b) Give the name and structure of any one non specific antidiarrheal agent.

- c) Discuss the use of anti-H. pylori drugs in the management of peptic ulcer.
- d) What do you understand by the term spasm. Classify anti-spasmodic drugs with suitable example.

OR

Classify antiseizure agents. Discuss the structure and mechanism of action of phenytoin.

3. a) Explain briefly synthesis and storage of insulin.
- b) Draw the structure of any one sex hormone and enlist its toxicity.
- c) Write a brief note on the steroid hormones used in the hormonal replacement therapy.
- d) Discuss the biosynthesis of T3 and T4.

OR

Classify antithyroid agents. Discuss any one imidazole nucleus containing antithyroid agent.

4. a) What do you understand by QSAR/QSPR.
- b) Enlist two applications of drug design.
- c) Differentiate between indirect and direct drug design.
- d) "Computer aided drug design may reduce the time period of drug discovery" Comment.

OR

"Computer aided drug design may be used to find out the mechanism of drug action" Comment.

5. a) Draw the structure of Vitamin A and enlist its two uses.
- b) Give advantages of diazepam over barbituric acid analogies as anxiolytics.
- c) Discuss various stages of anesthesia.
- d) Discuss four drugs which affect brain dopaminergic system and currently used in treatment of Parkinsonism.

OR

Write a note on drug abuse with special emphasis on narcotics.
