

Roll No

PY-603

B.Pharmacy VI Semester

Examination, December 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 question 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) Give a brief account of mode of action of general anaesthetics.
b) Write a short note on development of new hypnotics.
c) Write names and structures of drugs effective against partial and generalized tonic-clonic seizures.
d) Exemplify endogenous opioid peptides and discuss their physiological functions.

OR

Name some psychotomimetic drugs and discuss neurobiology of drug abuse and addiction.

2. a) What are laxatives? Name a few laxatives and explain their modes of action.
b) Name a few antidiarrheal agents with different modes of their action.

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- c) What are antispasmodics? Classify them giving structures.
d) Name some antipsychotic drugs giving their structures and clinical applications.

OR

Write a detailed note on Antiparkinsonian and spasmolytic agents.

3. a) Write structures of currently used oral hypoglycemic agents.
b) Write a note on development of adrenocorticoid drugs?
c) Classify sex hormones and discuss their mechanism of action.
d) Discuss biochemistry of physiology of thyroid hormones.

OR

What are adrenocorticoids? Discuss development of adrenocorticoid drugs .

4. a) Classify vitamins.
b) Discuss sources of B1, B2 , D and E vitamins and their importance.
c) Give synthesis of vitamin C from D-glucose.
d) Write names and structures of various components of vitamin B complex.

OR

Prove the B-ionone ring in vitamin A. Discuss the structure of vitamin K and give its synthesis.

5. a) What do you mean by molecular modelling? What are two major aspects of molecular?
b) Write major steps in structure based drug designing.
c) Write a note on design of ligands.
d) Write an exhaustive note on CADD methods.

OR

Describe various methodologies for Docking.