

PY - 603

B.Pharmacy VI Semester

Examination, June 2014

**Pharmaceutical Chemistry - VII
(Medicinal Chemistry - II)**

Time : Three Hours

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Maximum Marks : 70

Note: Attempt any five questions. All questions carry equal marks.

1. a) Write characteristics of the ideal anesthetic agent. 4
b) Write a note on clinical evaluation and development of new hypnotics. 5
c) Name various components of vitamin B complex. Write their structural formula. 5
2. a) Discuss common experimental protocol used in molecular dynamics simulations. 5
b) Write a detailed note on development of adrenocorticoid drugs. 5
c) Write structures of some progestin infertility drugs. 4
3. a) Categories laxatives as a function of their mechanism of action giving examples. 5
b) Write structural requirements of H_2 antihistamines and discuss their mechanism of action. 5

- c) Write a short note on recent muscarinic antagonists. 4
4. a) Write structures of 1st and 2nd generation sulfonylureas. Discuss their pharmacokinetics and metabolism. 5
b) Write a short note on opioids and enkephalinase inhibitors as antidiarrheal agents. 4
c) Write structures of drugs used in treatment of anxiety and discuss SAR of benzodiazepines. 5

5. a) Discuss classical and non classical psychoactive drugs of abuse. 5
b) What are neuroleptics? Write structures of phenothiazine and thioxanthene derivatives. 4
c) Define and classify psychotomimetic agents giving their structures. 5

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6. a) Discuss structure activity relationship of dopamine receptor agonists. 4
b) Explain neuromuscular disorders and etiology of Parkinson disease. 5
c) Write mechanism of action and structures of drugs clinically used for partial and generalized seizures. 5
7. a) Write structures of a few estrogens, progestins and androgens. 4
b) Discuss biochemistry and physiology of thyroid hormones. 5
c) Discuss virtual drug screening techniques and applications. 5