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Roll No.....

PY-503 (GS)

B.Pharmacy V Semester Examination, June 2020

Grading System (GS)

Pharmaceutical Chemistry - VI

(Medicinal Chemistry - I)

Time : Three Hours

Maximum Marks : 70

Note: i) Answer any five questions.
ii) All questions carry equal marks.

1. Explain with examples how geometric isomers differ in biological activity.

2. Classify the autonomic drugs. Enumerate the importance of ganglionic blocking agents as autonomic drugs.

3. What do you understand by metabolism of drugs? Discuss Glucuronic Acid conjugation with suitable examples.

4. Discuss neurochemistry of acetyl choline how two types of actions are exhibited by acetyl choline.

5. Write note on the followings:
   a) Neuromuscular blocking agents.
   b) Physicochemical aspects in drug design
6. Write notes on any two of the followings:
   a) Conjugation reactions in drug metabolism
   b) Stereochemistry of norepinephrine
   c) Bioprecursor prodrugs.

7. What are Phase-I and Phase-II reactions? Elaborate the factors affecting drug metabolism.

8. Answer any four of the following:
   a) Define with example agoinsts, antagonists and partial agonists.
   b) What are oxidation reactions in phase I metabolism. Explain with example.
   c) Discuss chemistry of acetylcholinesterase inhibitors.
   d) Give the structure of drugs which affect storage and release of catecholamines.
   e) What are leukotrienes. What is their importance.
   f) Discuss chemistry of prostaglandins.

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