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Roll No.....

PY-503 (GS)**B.Pharmacy V Semester**

Examination, December 2017

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. a) Write an exhaustive note on physico-chemical and steric aspects of drug molecules and their biological actions. 7
- b) What are receptors? Discuss its types, site theories and factors affecting drug-receptor interaction. 7
2. a) Discuss phase I metabolic biotransformation of drugs. 7
- b) Discuss about factors influencing metabolic pathways of drugs. 7
3. a) What are prodrugs? Discuss its types and purpose. 7
- b) Write an exhaustive note on carrier linked prodrugs. 7
4. a) Classify autonomic drugs giving examples with structures. 7
- b) Discuss directly and indirectly acting Cholinomimetic drugs. 7

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5. a) What are ganglionic blocking agents? Discuss their importance giving examples. 5
- b) Write on drugs affecting adrenergic neurotransmission. 5
- c) Discuss sympathomimetic and sympatholytic agents giving examples. 4
6. a) What are Serotonins? Discuss about its agonists and antagonists, mode of action and pharmacology. 7
- b) Discuss site of action, mode of action and SAR of local anesthetics. 7
7. a) What are prostaglandins? In brief discuss their biosynthesis, Metabolism, role in physiology and pathophysiology and pharmacological actions. 7
- b) Classify NSAIDs giving examples. Discuss their mechanism of action. 7
8. a) Discuss inhibitors of histamine release and inhibitors of released histamine. 7
- b) Write about dual acting antihistaminics, H₂ and H₃ antagonists. 7

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