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Roll No

PY-402**B.Pharmacy, IV Semester**

Examination, June 2017

Choice Based Credit System (CBCS)**Medicinal Chemistry - I****Time : Three Hours****Maximum Marks : 60****Note:** i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Explain bioisosterism and its role in medicinal chemistry.
b) Write on stereochemical aspects affecting drug metabolism.
2. a) Discuss principle of phase - I and phase - II drug metabolism citing examples.
b) Explain how biological action of drugs is affected by ionization, chelation and optical isomerism. Give suitable examples.
3. a) Exemplify direct and indirect acting sympathomimetic agents giving their structures.
b) Write examples of alpha and beta adrenergic blockers. Discuss SAR of beta blockers.

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4. a) Write examples of reversible and irreversible cholinesterase inhibitors giving their structures.
b) Give name and structures of a few natural and synthetic cholinergic blocking agents. In brief discuss SAR of cholinolytic agents.

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5. a) Name different classes of drugs acting on CNS. Discuss role of barbiturates and benzodiazepines giving chemical synthesis of one drug under each category?
b) Discuss SAR of phenothiazines.
6. a) Write synthesis of a drug under phenothiazine and fluoro butyrophenone series.
b) Classify anti convulsants. Discuss their mechanism of action.
7. a) Discuss SAR of hydantoins and metabolic fate of any drug under this category.
b) Name some inhalation anaesthetics and ultra short acting barbiturate. Discuss how general anaesthetics work.
8. a) Classify narcotic and non narcotic analgesics giving their chemical structures.
b) Discuss SAR of morphine analogs. Write synthesis and metabolism of any one anti-inflammatory agent.

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