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Roll No

BP-501 T (CBGS)

B.Pharmacy V Semester (PCI Scheme)

Examination, November 2018

Choice Based Grading System (CBGS)

Medicinal Chemistry - II

Time : Three Hours

Maximum Marks : 75

Note: i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) How Local anesthetics are classified? Discuss their SAR.
b) What are Anti-coagulants? Describe the mode of action of warfarin.
2. Define carcinoma and sarcoma. Classify anti-neoplastic agents. Discuss the mode of action of alkylating agents.
3. Classify the drugs used in the treatment of hypertension. Elaborate the role of ACE inhibitors as anti-hypertensive drugs.
4. a) Discuss the SAR, chemistry and mode of action of Cardiac glycosides.
b) Classify anti-arrhythmic drugs. Discuss the chemistry and mode of action of Calcium Channel Blockers.
5. a) Classify oral hypoglycemic drugs. How sulfonylureas exert their anti-diabetic activity?
b) How anti-thyroid drugs are classified? Elaborate their mode of action.

6. Discuss the various sites of action of diuretics. Elaborate the mode of action and Structure-activity relationship studies of Thiazide Diuretics.
7. a) Classify H₁ antagonists. Elaborate Structure-activity relationship of antihistamines. Discuss the synthesis of diphenhydramine hydrochloride.
b) How H₂ antagonists are classified? Write mechanism of action of proton pump inhibitors.
8. Write short notes on (any two)
 - a) Oral contraceptives
 - b) Stereochemistry of Steroids
 - c) Vasodilators
