

**PY-703**

**B. Pharm. (Seventh Semester)**

**EXAMINATION, Dec., 2009**

**PHARMACEUTICAL CHEMISTRY – VIII**

**(Medicinal Chemistry – III)**

**(PY – 703)**

*Time : Three Hours*

*Maximum Marks : 70*

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

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1. Discuss the following :

- (i) Nomenclature of steroids
- (ii) Diel's hydrocarbon
- (iii) Stereochemistry of steroids

*Or*

2. Classify diuretics giving examples with structure. Discuss the SAR of their side group of diuretics.

3. Discuss the mode of action of the following class of drugs :

- (i) Antiarrhythmic agents
- (ii) Vasopressor drugs

*Or*

4. Give a comprehensive account of 'Mode of Action' of sulphonamides. Support your answer with suitable examples.

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5. (a) Outline various conditions associated with hyper and hypo activity of thyroid gland.

(b) Give an illustrated account of antithyroid drugs.

*Or*

6. Classify antiviral agents giving suitable examples and structure under each class. Discuss the mode of action of any *one* class of antiviral drugs.

7. Discuss oral hypoglycemic agents in detail. Give the synthesis of (i) Glibenclamide (ii) Phenformin.

*Or*

8. (a) Give a brief account of 'Mode of Action' of antimalarials.

(b) Discuss the synthesis of one important antimalarial drug belonging to the class :

- (i) Diaminopyrimidines
- (ii) Sulfones

9. What are antineoplastic agents ? Classify them giving examples with structure of each class. Discuss the synthesis of chlorambucil and busulfan.

*Or*

10. Write notes on any *two* of the following :

- (i) Antitubercular drugs
- (ii) Prostaglandins
- (iii) Anabolic agents
- (iv) Immunosuppressants