## PY-703

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## B. Pharm. (Seventh Semester) EXAMINATION, June, 2010

## PHARMACEUTICAL CHEMISTRY

(Medicinal Chemistry-III)

(PY - 703)

Time: Three Hours

Maximum Marks: 70

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

 What are Steroids? Discuss their nomenclature and stereochemistry. Give different chemical tests used for the qualitative analysis of steroids.

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- 2. What are high ceiling diuretics? Classify diuretics on chemical basis giving suitable example. Give chemical name, synthesis and mode of action of any *one* diuretic.
- 3. What are Sulphonamides? Discuss their mode of action. Give the chemical name and synthesis of any two sulpha drugs.

Or

4. Name three antimalarials derived from 8-amino-6-methoxy quinoline nucleus. Give their structure, chemical name, uses and the synthesis of any one drug.

(b)  $\alpha$ -glucosidase inhibitors.

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6. How would you classify the cardiovascular drugs? Support your answer by giving the structure, chemical name and uses of one potent compound from each category.

Write notes on any two of the following:

- (a) Antithyroid drugs
- (b) Adrenocorticoids
- (c) Ergot alkaloids
- (d) Peptide hormones

Or

- 8. (a) How would you classify 'antimetabolites'?
  - (b) Give the structure, synthesis and uses of any two of the following:
    - (i) Methotrexate
    - (ii) Mercaptopurine
    - (iii) Azaserine
    - (iv) Fluorouracil
- Classify the antiviral agents giving suitable example with structure under each class. Elaborate on the SAR of the adamantane derivatives.

Or

- 10. Discuss any two of the following:
  - (a) Structural features of oxytocin and its clinical role
  - (b) Structural features of insulin
  - (c) Type I and type II diabetes
  - (d) Chemotherapeutic consideration of sulphonamides