

FINAL YEAR B.PHARM. SEMESTER-VIII (2011 COURSE) :

WINTER - 2017

SUBJECT: MEDICINAL CHEMISTRY- IV

Day: Wednesday  
Date: 08/11/2017

W-2017-3849

Time: 02.00 PM TO 05.00 PM  
Max Marks: 80

N.B:

- 1) Q.No 1 and Q.No. 5 are **COMPULSORY**. Out of the remaining solve Any **TWO** questions from each section.
- 2) Both the sections should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate full marks.

SECTION-I

- Q.1 Answer Any **FIVE** of the following: (10)
- a) Write the structures and IUPAC name of any one
    - a) prednisone
    - b) Estrone.
  - b) Give any two examples of Prostaglandins along with their structures
  - c) Enlist various parameters used in QSAR.
  - d) Write down the synthesis of chlorpheniramine.
  - e) What are androgens? Give its examples.
  - f) Write down the structure of methadone or meperidine.
- Q.2 What are the estrogens? Give their classification. Explain in brief chemistry, SAR and uses of steroidal estrogens. (15)
- Q.3 Explain in brief chemistry, SAR, MOA, uses and side effects of narcotic analgesics. (15)
- Q.4 Write short notes on Any **THREE** of the following: (15)
- a) Molecular modelling
  - b) Mineralocorticoids
  - c) Anabolic steroids
  - d) H<sub>2</sub> antagonist

SECTION-II

- Q.5 Answer Any **FIVE** of the following: (10)
- a) What are hemostatic agents? Give their examples.
  - b) Give chemical classification of NSAID
  - c) Sketch out the synthesis of warfarin.
  - d) Sketch out the synthesis of Aspirin.
  - e) Give any two points in SAR of N aryl Anthranilic acids.
  - f) Classify diagnostic agents.
- Q.6 a) Discuss in detail the chemistry of thyroid hormone. (09)  
b) Explain pyrazolidinedione as NSAID. (06)
- Q.7 Explain the chemistry of Insulin and discuss in detail oral hypoglycemic agents. (15)
- Q.8 Write short notes on Any **THREE** of the following: (15)
- a) Diagnostic agents used to check liver function test.
  - b) Applications of combinatorial chemistry
  - c) Heparin
  - d) Oral anticoagulants

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