

FINAL YEAR B.PHARM. SEMESTER-VIII (CBCS - 2015 Course) :

SUMMER - 2019

SUBJECT : MEDICINAL CHEMISTRY – IV

Day : Monday
Date : 22/04/2019

S-2019-4412

Time : 02.00 PM TO 05.00 PM
Max. Marks : 60

N.B.

- 1) **Q.No. 1 and Q. No. 5** are **COMPULSORY**. Out of remaining solve **ANY TWO** Questions from **each** section.
 - 2) Figures to the **RIGHT** indicate **FULL** marks.
 - 3) Answers to both the sections should be written in **SEPARATE** answer book.
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SECTION – I

- Q.1** Attempt **ANY FIVE** from the following : **(10)**
- a) Enlist different parameters of QSAR.
 - b) Write down the structure of estrone and hydrocortisone.
 - c) Give two examples of anabolic steroids along with structures.
 - d) Enlist different uses of prostaglandins.
 - e) Write down the structure of Cimetidine and Ranitidine.
 - f) Give two examples of tricyclic antihistaminics along with their structure.
- Q.2** What are estrogens? Classify and discuss the chemistry, SAR and uses of estrogens. **(10)**
Sketch out the synthesis of diethyl stilbesterol.
- Q.3** Discuss in detail SAR of morphine. **(10)**
- Q.4** Write short notes on **ANY TWO** of the following. **(10)**
- a) Mineralocorticoids
 - b) Methods of QSAR
 - c) Ethanolamine derivatives as antihistaminics.

SECTION – II

- Q.5** Attempt **ANY FIVE** from the following : **(10)**
- a) Give any two examples along with one structure of oral anticoagulants.
 - b) Write down synthesis of Mefenamic acid.
 - c) Give principle of microwave synthesis.
 - d) Write down synthesis of levothyroxine.
 - e) Give any two examples along with one structure of thrombolytic.
 - f) Give any two examples of COX-2 inhibitors.
- Q.6** Explain in brief anticoagulants along with one synthesis. Discuss SAR of thyroid hormone. **(10)**
- Q.7** Give classification along with examples and structures of NSAIDs. Explain in short Aryl Alkanoic acids. **(10)**
- Q.8** Write short notes on **ANY TWO** of the following. **(10)**
- a) Advantages of microwave assisted synthesis
 - b) Oral antidiabetic agents
 - c) Basics of combinatorial chemistry

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