

BACHELOR OF PHARMACY (B. PHARM.) (CBCS - 2015 COURSE)  
Final Year B. Pharm. Sem-VIII : WINTER- 2022  
SUBJECT : MEDICINAL CHEMISTRY-IV (T UE)

Day : Monday

Time : 02:00 PM-05:00 PM

Date : 23-01-2023

W-13727-2022

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.

**SECTION – I**

- Q.1** Attempt **ANY FIVE** from the following : **(10)**
- a) What do you mean by QSAR? Enlist different methods of QSAR.
  - b) Write down the structure of Testosterone and Prednisone.
  - c) What are androgens and anabolic steroids?
  - d) Give two examples of prostaglandins.
  - e) Sketch out the synthesis of Pyralamine.
  - f) Give any two examples of antisecretory agents (H<sub>2</sub> antagonists) with their structure.
- Q.2** What are corticosteroids? Discuss the chemistry, SAR, MOA and uses of **(10)** corticosteroids.
- Q.3** Draw general structure of antihistaminics. Discuss in detail ethylenediamine class of **(10)** antihistaminics.
- Q.4** Write short notes on **ANY TWO** of the following. **(10)**
- a) Nomenclature of prostaglandins
  - b) Female sex hormone
  - c) Peripheral modification of morphine

**SECTION – II**

- Q.5** Attempt **ANY FIVE** from the following : **(10)**
- a) Give two examples along with one structure of oral – antidiabetic agents.
  - b) Write down synthesis of Ibuprofen.
  - c) What are COX-2 inhibitors?
  - d) Write down synthesis of Tolbutamide.
  - e) What are Haemostatic agents?
  - f) Give any two examples along with one structure of N-aryl anthranillic acid.
- Q.6** Explain in brief thyroid and antithyroidal agents along with one synthesis. **(10)**
- Q.7** Describe blood coagulation process? Explain in brief oral anticoagulants. **(10)**
- Q.8** Write short notes on **ANY TWO** of the following. **(10)**
- a) Combinatorial chemistry
  - b) Basic principle of microwave synthesis
  - c) Oral-antidiabetic agents

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