

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

Day : Tuesday
Date : 12/7/2022

S-13727-2022

Time : 02:00 PM-05:00 PM
Max. Marks : 60

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- 1) **Q.1 and Q.5 are COMPULSORY.** Out of the remaining attempt **TWO** questions from Section-I and any **TWO** questions from Section-II
 - 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** Answer **ANY FIVE** of the following: **(10)**
- a) Give objectives of drug design.
 - b) What are Estrogens? Give examples
 - c) Write down synthesis of DES.
 - d) Write down structure and uses of Dexamethasone.
 - e) Sketch out synthesis of anyone drug belonging to ethylenediamine class of antihistamines.
 - f) Give applications of Prostaglandins.
- Q.2** What are corticosteroids? Give their chemistry , SAR and uses. **(10)**
- Q.3** Discuss in detail the chemistry and SAR of morphine derivatives. **(10)**
- Q.4** Write short notes on **ANY TWO** **(10)**
- a) QSAR and its applications
 - b) Narcotic antagonists
 - c) H₂ antagonists

SECTION-II

- Q.5** Answer **ANY FIVE** of the following: **(10)**
- a) Write down any two structures of NSAIDS belonging to salicylic acid class.
 - b) Give applications of microwave synthesis.
 - c) Write down synthesis of Ibuprofen.
 - d) Enlist various anti thyroid agents.
 - e) Sketch out the synthesis of Tolbutamide
 - f) What is difference between human insulin and porcine insulin?
- Q.6** Give classification of NSAIDs. Explain in brief pyrazolidinediones class of NSAIDs with examples. **(10)**
- Q.7** Give on account of chemistry and metabolic functions of thyroid Hormones. **(10)**
- Q.8** Write short notes on **ANY TWO** **(10)**
- a) Oral anticoagulants
 - b) Combinatorial chemistry
 - c) COX inhibitors

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