

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

SUMMER - 2018

SUBJECT: MEDICINAL CHEMISTRY- IV

Day: Friday
Date: 20/04/2018

S-2018-3982

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 structure of any two steroidal estrogen.
 - b) Give any two examples of eicosanoids along with one structures.
 - c) Applications of QSAR
 - d) Sketch out the synthesis of pyralamine
 - e) Write down the synthesis of any non-steroidal estrogen.
 - f) Write down the applications of antihistaminics.
- Q.2 What are Glucocorticoids? Give their chemistry, SAR, MOA and uses. (15)
- Q.3 Classify antihistaminic. Give an account of agents from amino Alkyl ether and ethylene diamine class. (15)
- Q.4 Write short notes on Any **THREE** of the following: (15)
- a) Methods of QSAR
 - b) Side effects of morphine
 - c) SAR of H₂ antagonist
 - d) Nomenclature of prostaglandins

SECTION-II

- Q.5 Answer Any **FIVE** of the following: (10)
- a) Write down any two structures of NSAID from salicylic acid class.
 - b) Sketch out the synthesis of any one oral hypoglycemic agents.
 - c) Give any two example of ant thyroidal agents.
 - d) Give any two example of anticoagulants with their structure.
 - e) Enlist various radio opaque diagnostic agents.
 - f) Write down the structure and IUPAC name of warfarin/ phenindione.
- Q.6 Discuss the chemistry, metabolic effects, SAR and synthesis of thyroid hormone (15)
- Q.7 Explain insulin and its preparations and explain in detail arylalkonic acid class of NSAIDS. (15)
- Q.8 Write short notes on Any **THREE** of the following: (15)
- a) Combinational chemistry
 - b) Blood coagulation process
 - c) Agents used for liver and kidney function test.
 - d) Pyrazolone class of NSAIDS

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