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Total Number of Pages : 01

B.Pharm
BP401T

4th Semester Regular Examination 2018-19
PHARMACEUTICAL ORGANIC CHEMISTRY - III

BRANCH : B.Pharma

Max Marks : 75

Time : 3 Hours

Q.CODE : F124

Answer Question No.1 (Part-A) and 02 (Part-B) which are compulsory and any TWO from Part-C.
The figures in the right hand margin indicate marks.

Part- A

Q1 Objective Answer Type Questions (Answer All) (2 x 10)

- Write down the structures of stereoisomers formed when cis-2-butene is reacted with bromine.
- Differentiate between diastereomers and enantiomers.
- Describe the isomerism exhibited by maleic acid and fumaric acid.
- Explain the term chiral molecule.
- State the necessary condition for a compound to show optical isomerism.
- Explain the term Meso compound.
- Write about conformational isomerism.
- Why do not you expect geometrical isomers in case of 2-butyne.
- Write down the structure of the following compounds:
i) Imidazole ii) Indole iii) Quinoline iv) Thiazole
- State Clemmensen reduction.

Part- B

Q2 Focused-Short Answer Type Questions- (Answer Any Seven) (5 x 7)

- Define the term stereoisomerism and classify it with examples.
- Write notes on Fischer's projection.
- Explain E and Z system of nomenclature with examples.
- Write short notes on resolution of racemic modification.
- Explain R and S system of nomenclature with examples.
- Write notes on conformational isomerism of n-Butane.
- Explain stereospecific reaction.
- Discuss the general methods of preparations of Furan.
- Discuss the chemical properties of Imidazole.

Part-C

Long Answer Type Questions (Answer Any Two)

- Q3** Discuss the synthesis, chemical reaction and medicinal uses of Pyrrole. **(10)**
- Q4** Discuss the synthesis, chemical reaction and medicinal uses of Pyrazole. **(10)**
- Q5** Explain the methods of preparation and chemical reaction of Pyridine. **(10)**
- Q6** **Write short notes on :** **(10)**
- Wolff-Kishner reduction
 - Claisen Schmidt reaction