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Total No. of Pages : 02

Total No. of Questions : 13

B.Pharma (2017 Batch) (Sem.-4)
PHARMACEUTICAL ORGANIC CHEMISTRY-III

Subject Code : BP-401T

Paper ID : [75843]

Time : 3 Hrs.

Max. Marks : 75

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A**1. Write short notes on :**

- a. Give the name and structures of all the possible conformations for propyl chloride.
- b. Name and structure of thiophene ring containing compounds.
- c. Explain the basicity of pyrrole, pyridine.
- d. Write down the structure and names of all the azoles.
- e. Why Oxazole does not undergo nitration or sulfonation?
- f. Difference between D and L.
- g. Define and give example of enantiomers.
- h. Geometrical isomers.
- i. Meso compounds.
- j. Imidazole has boiling point of 256° whereas 1-methyl imdazole has boiling point 198° why?



**SECTION-B**

2. Give detailed account of stereospecific reactions.
3. Explain :
 - a. Oppenauer oxidation.
 - b. Clemmensen reduction.
4. Mechanism and synthetic application of Beckmann rearrangement.

SECTION-C

5. Give the name and structures of all the possible Newmann projections for n-butane. Arrange them in increasing stability order with suitable justifications.
6. Draw the stereochemical formulas for all the possible stereoisomer of the 2,3 dichlorobutane. Label pairs of enantiomers, diastereomers and meso compounds.
7. Write down the mechanism for synthesis of quinoline by Skraups method.
8. Bayers strain theory.
9. Explain the techniques used to prepare chiral drugs.
10. Short note on asymmetric synthesis.
11. Nucleophilic substitution reactions of pyridine.
12. Two methods for preparation of Isoquinoline.
13. Schmidt rearrangement.

NOTE : Disclosure of Identity by writing Mobile No. or Marking of passing request on any paper of Answer Sheet will lead to UMC against the Student.

