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Total No. of Pages : 02

Total No. of Questions : 13

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

Subject Code : BP-401T

Paper ID : 75843

Date of Examination : 24-12-2022

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) Define Stereoisomerism.
- (b) What are chiral molecules? Give one example.
- (c) What is absolute asymmetric synthesis?
- (d) Draw eclipsed and staggered conformation of n-Butane.
- (e) Define cis and trans isomers giving suitable example.
- (f) What are heterocyclic compounds?
- (g) Write chemical structure with numbering of isoquinoline.
- (h) Write structure and medicinal uses of pyrazole.
- (i) What can lithium aluminum hydride reduce?
- (j) What is an oppenauer-oxidation?

SECTION-B

2. Discuss in detail optical activity, enantiomerism, diastereoisomerism and meso compounds.
3. Explain stereo isomerism in biphenyl compounds and conditions for optical activity.
4. Write the synthesis, relative aromaticity, reactions and medicinal uses of furan and pyrrole.

SECTION-C

5. Write in detail about RS system of nomenclature of optical isomers.
6. Discuss stereospecific and stereoselective reactions.
7. Give an account on racemic modification.
8. Discuss mechanism and synthetic importance of Beckmann rearrangement.
9. Discuss synthesis and various medicinal uses of pyrimidine and azepines.
10. Write synthesis and important reactions of imidazole.
11. Write in detail about Wolff Kishner reduction.
12. Discuss structure and uses of indole, purine and aeridine.
13. Write down brief note on conformational isomerism in cyclohexane.

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.