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Total No. of Pages : 02

Total No. of Questions : 22

B.Pharma (2017 Batch) (Sem.-4)

**PHARMACEUTICAL ORGANIC CHEMISTRY-III**

Subject Code : BP-401T

M.Code : 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****Write short notes on :**

1. Draw and specify D & L configuration of glyceraldehyde.
2. What do you understand by heterocyclic compounds? Give examples.
3. Explain enantiomerism versus diastereoisomerism.
4. Draw all possible conformations of cyclohexane. Which is more stable?
5. Write the structure of meso tartaric acid in Fischer projection.
6. What is Atropisomerism?
7. Write chemical structure with numbering of isoquinoline and acridine.
8. Write structures of pyrazole and purine.
9. Write structure and medicinal uses of imidazole.
10. What is Oppenauer-oxidation?



**SECTION-B**

11. Discuss with examples Clemmensen reduction, Birch reduction and Wolff Kishner reduction.
12. Write detailed note on relative aromaticity, reactivity and uses of pyrrole, furan and thiophene.
13. Write detailed note on methods used for the determination of the configuration.

**SECTION-C**

14. Give an account of asymmetric synthesis.
15. Molecular dissymmetry is an essential feature for optical activity. Comment on giving example.
16. Give an account on stereoisomerism in biphenyl compounds.
17. Discuss mechanism and synthetic importance of Beckmann's rearrangement.
18. Write a detailed note on metal hydride reduction.
19. Write synthesis and uses of Quinoline and Indole.
20. Explain Claisen-Schmidt condensation.
21. Discuss racemic modification and resolution of racemic mixture.
22. Give brief note on stereoselective and stereospecific reactions.

**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.**

