

QP Code: 421006

Reg. No.....

**Fourth Semester B.Pharm Degree Examinations July 2019**

**Pharmaceutical Organic Chemistry**

**(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

**(2x10=20)**

1. Discuss the reaction, mechanism and applications of Clemmensen reduction and metal hydride reduction.
2. Explain DL system and RS system of nomenclature of optical isomers.

**Short Notes**

**(7x5=35)**

3. Explain conformational isomerism in n- butane.
4. Give two methods for synthesis of pyrimidine and pyrrole,
5. Explain basicity of pyridine.
6. Explain Enantiomerism.
7. Explain Schmidt rearrangement.
8. Give two methods for synthesis of purine and thiophene.
9. Explain basicity of pyrrole.

**Answer Briefly**

**(10x2=20)**

10. Write the Chemical structure and medicinal uses of isoquinoline.
11. Define atropisomerism.
12. Optical Inactivity of organic compounds.
13. Define elements of symmetry.
14. Define conformational isomerism.
15. Write the synthetic importance of Dakin reaction
16. Write the chemical structure and uses of Indole.
17. Write the uses of pyrimidine and azepine.
18. Explain racemic modification with an example.
19. Chiral molecule.

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