

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

**B.PHARM. DEGREE EXAMINATION – JANUARY 2020
Fourth Semester**

PHARMACEUTICAL ORGANIC CHEMISTRY - III

Time : Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions: (2 x 10 = 20)

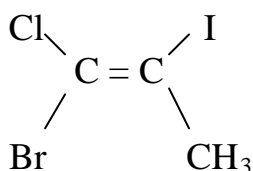
1. a) Describe about geometrical isomerism and explain with examples. (5)
- b) Explain sequence rules and RS system of nomenclature of optical isomers. (5)
2. a) Explain about reaction and mechanism involved in Beckmann rearrangement reaction. (5)
- b) Discuss the mechanism involved in oppenauer oxidation reaction. (5)
3. Write synthesis, chemical properties of indole and pyridine. (10)

II. Write short answers on any **SEVEN** questions: (7 x 5 = 35)

4. Define optical activity and specific rotation and give examples of meso compound.
5. Give the synthetic importance of Claisen Schmidt condensation.
6. Write about asymmetric synthesis.
7. Define configurational isomerism and conformational isomerism with examples.
8. Write a note on stereoisomerism in biphenyl compounds.
9. Describe the significance of purine derivatives.
10. Write short notes on chemical properties of furan.
11. Explain the Birch reduction reaction.
12. Write the synthesis and importance of pyrimidine?

III. Write short notes on : (10 x 2 = 20)

13. What is chiral carbon and give any two examples?
14. Write about aromatic character of Furan.
15. Write any two examples of enantiomers?
16. Explain synthesis of caffeine by fisher method.
17. Write the E and Z structure of



(p.t.o.)

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18. Give the biologically active compounds of acridine.
19. Write wolfkisher reduction reaction.
20. Write about Bischler – Napieralski synthesis of isoquinoline.
21. Explain about chemical properties of thiophene.
22. Define stereo selective synthesis.

(Sl.No. M21936)