Total No. of printed pages = 2

MPC 202 T

Roll No. of candidate

23/54/22

BINA CHOWDHURY CENTRAL LIBRAIN (SIMT & RIPS) **

ASME Hatkin Mapara, waha 250017

2022

M.Pharm. 2nd Semester End-Term Examination

ADVANCED ORGANIC CHEMISTRY - II

Full Marks - 75

Time - Three hours

The figures in the margin indicate full marks for the questions.

SECTION - A

(Marks - 25)

Answer any five from the following questions:

 $(5 \times 5 = 25)$

- 1. Discuss the working principle and synthetic applications of continuous flow reactors.
- 2. Name the different types of pericyclic reactions and discuss any one in detail.
- 3. Define optical activity, specific rotation, meso compounds with suitable diagram and example.
- 4. What are photochemical reactions? Explain the basic principles of photochemical reactions.
- 5. Explain the methods of asymmetric synthesis using chiral pools.
- 6. State the advantages and disadvantages of heterogenous and homogenous catalysis. Write the role of enzyme in organic synthesis.

SECTION – B (Descriptive)

(Marks - 50)

Answer any four from the following questions:

 $(4 \times 12.5 = 50)$

- 7. What is Green Chemistry? Explain the twelve principles of Green Chemistry with suitable examples.
- 8. What is solid phase synthesis? State the mechanism of protection and deprotection and coupling reaction in solid phase chemistry.

Turn over

- 9. What is R and S configuration? Write a note on the Cahn, Ingold, Prelog (CIP) sequence rule.
- 10. Write about ultrasound assisted reaction. State the various types of sonochemical reactions.

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- 11. Write a note on:
 - (a) Methods of enzyme immobilization
 - (b) Ziegler-Natta catalyst