

M.Pharm. Second Semester (Pharmaceutical Chemistry) (New)  
**35352 : Advanced Organic Chemistry - II : MPC 202 T**

P. Pages : 1

Time : Three Hours



AU - 0769

Max. Marks : 75

- Notes :
1. All question carry equal marks.
  2. Answer **any five** question.
  3. Discuss the reaction, mechanism wherever necessary.

1. Explain in detail about principles of solid phase peptide synthesis. Write a note on site specific chemical modifications of peptides. **15**
2. Write in detail about microwave assisted reactions. Add a note on applications in various organic reactions and heterocycles synthesis. **15**
3. Explain in detail about basic principles of photochemical reactions, with examples. **15**
4. Write in detail about heterogeneous and homogenous catalysis with their advantages and disadvantages. **15**
5. Write short note on **any two**. **15**
  - a) Cahn, Ingold, Prelog (CIP) sequence rule.
  - b) Racemates and resolution of racemates.
  - c) Stereo selective synthesis with examples.
6. Explain in detail about ultrasound assisted reactions with synthetic applications. **15**
7. Write short notes on **any two**. **15**
  - i) Coupling reactions in peptide synthesis.
  - ii) Pericyclic reactions
  - iii) Biocatalysis.

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