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FACULTY OF PHARMACY

M. Pharmacy (Pharmaceutical Chemistry) II-Semester (PCI) (Main) Examination, August 2019

Subject: Advanced Organic Chemistry – II

Time: 3 Hrs Max. Marks: 75

Note: Answer any five questions. All questions carry equal marks.

- (a) Explain the principle involved in the continus flow reactors. Discuss their industrial Applications.
 - (b) Write a note on solvents used in microwave assisted synthesis.

(8+7)

- 2 (a) Discuss the sequential strategies for solution phase peptide synthesis.
 - (b) Write a note on side reactions in peptide synthesis.

(8+7)

- 3 (a) What are pericyclic reactions? Discuss any two types of pericyclic reactions with mechanism.
 - (b) Discuss the basic principles of photo chemical reactions.

(10+5)

- 4 (a) What is heterogenes catalysis? Write the advantages and disadvantages
 - (b) Discuss in detail abt the homogens catalysis used in drug synthesis with example.

(8+7)

5 (a) Write a note on chiral auxillaries and catalytic asymmetric synthesis.

(9+6)

- (b) What are racemates? Explain resolution of recemates and its applications.
- 6 Write a short note on:

(3+6+6)

- (b) Protecting agents in peptide synthesis
 (c) Ultra snd assisted synthesis
- (a) Discuss abt protection, solid supports, linkers acti vation procedures in solid phase peptide synthesis.
 - (b) HF cleavage protocols.

(10+5)

- 8 Write a short note on:
 - (a) Applications of Microwave technology in organic reactions.
 - (b) Phase transfer catalysis

(8+7)