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FACULTY OF PHARMACY

M. Pharmacy (Pharm. Chemistry) II-Semester (PCI) (Suppl.) Examination, February 2019

Subject: Advanced Organic Chemistry-II

Time: 3 Hrs Max. Marks: 75

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

- 1 a) Discuss the Principle and applications of microwave irradiation reactions
 - b) Explain the basic principles of green chemistry in organic synthesis.
- 2 Discuss asymmetric synthesis using chiral pool, chiral auxiliaries, chiral catalysts and chiral solvents with suitable examples
- 3 a) Write a note on transition metal catalysed reactions in organic synthesis
 - b) What is biocatalysis? Describe the organic synthesis by using enzymes.
 - c) Discuss hydrogenation reactions using homogens catalysts.
- 4. Discuss electro cyclic and sigma tropic reactions in presence of heat and light with suitable examples
- 5. a) Write a note on solid phase combinatorial synthesis.
 - b) Discuss Varis solid supports, linkers, protecting and deprotectin g grps used in solid-phase peptide synthesis
- 6. a) Discuss any two methods of resolution of racemic mixtures.

9

(7+8)

- b) Discuss sequence rules of R & S configuration with suitable examples. Explain how it is different from Fisher's D & L notations?
- 6

- 7. Write a note on
 - a) Photo addition reactions
 - b) Phase transfer catalysis
 - c) Ultra snd assisted reactions

(5+5+5)

- 8. a) Discuss cycloaddition reactions with mechanism and stereochemistry in presence of heat and light.
 - b) Discuss cpling reactions in peptide synthesis

(8+7)
