Question Paper

Exam Date & Time: 04-May-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

MPharm - Pharmaceutical Chemistry

MPharm Semester II - End Semester Examination, May-2019

Date: 04/05/2019

Advanced Organic Chemistry II [PCH-MPC202T]

Marks: 75 Duration: 180 mins. **SECTION - A** Answer all the questions. Answer the following (10 marks \times 5 = 50 marks) 1) What are the different types of chirality transfer and discuss (10)chelation enforced chirality transfer with a suitable example. 2) Explain the asymmetric epoxidation reactions and retro Diels-(10)alder reactions. 3) Explain in detail, with an example, about the solid phase peptide (10)synthesis. 4) Write a note on N-protective groups used in peptide synthesis. (10)Mention their merits and demerits. 5) What is green synthesis? Give any four principles of green (10)chemistry with examples. SECTION - B Answer all the questions. Answer the following (5 marks \times 5 = 25 marks) Discuss metal catalysed reactions with an example. (5)7) What is tanδ of solvents in microwave synthesis? How do you (5)calculate it? 8) Define and discuss with an example of the following: (5)a) cyclo addition reactions b) sigmatropic rearrangement 9) Explain chiral separation by column chromatographic method. (5)10) Enlist the important catalyst and building blocks used in (5)asymmetric aldol reactions.

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