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Total No. of Pages : 01

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M.Pharma(Pharmaceutical Chemistry) (2017 & Onwards) (Sem.–2) ADVANCED ORGANIC CHEMISTRY-II Subject Code : MPC-202T

M.Code: 74956

Time : 3 Hrs.

Max. Marks: 75

INSTRUCTIONS TO CANDIDATES :

- 1. Attempt any FIVE questions out of SIX questions.
- 2. Each question carries FIFTEEN marks.
- (a) What is green chemistry? Give twelve principles of green chemistry.
 (b) What is the working principle of continuous flow reactors? Give its advantages over other reactors.
 7.5
- (a) What is the principle of solid phase peptide synthesis? Explain t-BOC protocol of SPPS with suitable example.
 7.5
 - (b) Write a detailed note on concept of deprotection and purification in the peptide synthesis. 7.5
- 3. (a) What are basic principles of photochemical reaction? Describe photoaddition reactions along with two examples. 7.5
 - (b) Write a note on pericyclic reaction. Explain mechanism of sigmatropic rearrangement reactions with at least two examples. 7.5
- 4. (a) What is biocatalysis? Write a note on role of enzyme immobilization in organic reactions. 5
 - (b) What is homogenous catalysis? Write a note on Ziegler-Natta catalyst.
- (c) Describe briefly catalyst deactivation and regeneration.
 5. (a) What are Cahn Ingold Prelog sequence rules?
 (b) Describe asymmetric synthesis with examples.
 - (c) What are advantages of R and S notation over D and L notation?
- 6. Explain with suitable examples :
 - (a) Specific rotation5(b) Metal catalyzed reactions.5
 - (c) Site specific chemical modification of peptides.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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