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Total No. of Pages : 01

Total No. of Questions : 06

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.

1. (a) What is green chemistry? Give twelve principles of green chemistry. 7.5
(b) What is the working principle of continuous flow reactors? Give its advantages over other reactors. 7.5
2. (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. 5
(c) Describe briefly catalyst deactivation and regeneration. 5
5. (a) What are Cahn-Ingold-Prelog sequence rules? 5
(b) Describe asymmetric synthesis with examples. 5
(c) What are advantages of R and S notation over D and L notation? 5
6. Explain with suitable examples :
(a) Specific rotation 5
(b) Metal catalyzed reactions. 5
(c) Site specific chemical modification of peptides. 5

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.

