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Roll	N	o. Total No. of Pages : 01
	<b>M</b> .I	No. of Questions: 06 Pharma(Pharmaceutical Chemistry) (2017 & Onwards) (Sem2)  ADVANCED ORGANIC CHEMISTRY-II  Subject Code: MPC-202T  Paper ID: [74956]
Time: 3 Hrs. Max. Marks: 75		
INST 1. 2.	Αt	ICTIONS TO CANDIDATES: tempt any FIVE questions out of SIX questions. ach question carries FIFTEEN marks.
1.	a.	Describe twelve principles of green chemistry. (5)
	b.	Describe merits and demerits of microwave assisted reactions. (5)
	c.	Explain the working of continuous flow reactor. (5)
2.	a.	Describe the steps of t-BOC protocol for solid phase peptide synthesis. Comment on resins used for t-BOC SPPS. (7.5)
	b.	What is segment strategy for solution phase peptide synthesis? (7.5)
3.	a.	Explain the mechanism of photofragmentation in C1 <sub>2</sub> using potential energy curve. (5)
	b.	Describe Woodward-Hoffman rule of electrocyclic reactions. (5)
	c.	Explain stereochemistry of Diels-Alder reaction by citing the reaction between two moles of 1, 3-butadiene. (5)
4.	a.	Comparison of main advantages of heterogeneous vs. homogeneous catalysts. (5)
	b.	Briefly describe characterization of heterogeneous catalysts. (5)
	c.	Describe role of Wilkinson catalysts in synthetic organic chemistry. (5)
5.	a.	What is asymmetric synthesis? Explain giving examples. (5)
	b.	Differentiate between optical inactivity in <i>meso</i> compound and racemic mixture. (5)
	c.	What is D and L system of relative configuration? Describe important rules to assign D and L configuration. (5)
6.		Write short notes on: $(7.5\times2)$
	a.	Applications of Phase transfer catalysis.
	b.	Catalytic asymmetric synthesis.
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