

Printed Pages: 1

Sub Code: MPC 202T

Paper Id:

2	5	7	2	0	7
---	---	---	---	---	---

Roll No.

--	--	--	--	--	--	--	--	--	--

**M. PHARM
(SEM II) THEORY EXAMINATION 2017-18
ADVANCED ORGANIC CHEMISTRY-II**

Time: 3 Hours

Total Marks: 75

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

- 1. Attempt *all* questions in brief. 10 x 2 = 20**
- “Green chemistry is sustainable chemistry” Explain.
 - Define heterogenous catalysts with examples.
 - Explain Enantiopure separation.
 - What are cis-trans isomerism and E and Z rotation?
 - Explain Fmoc protocol.
 - Define Chiral pool and Chiral auxiliaries.
 - Write principles of photochemical reactions.
 - Write synthetic applications of ultrasound assisted reactions.
 - Name solid supports and linkers used in peptide synthesis.
 - Write types of pericyclic reactions.

SECTION B

- 2. Attempt any *two* parts of the following: 2 x 10 = 20**
- Write principles of solid phase peptide synthesis. Explain with a case study.
 - Write twelve principles of Green Chemistry with explanation.
 - Write preparation and characterization of heterogenous catalyst with examples.

SECTION C

- 3. Attempt any *five* parts of the following: 7 x 5 = 35**
- Write a note on Ziegler-Natta catalyst.
 - Write working principle and advantages of Continuous flow reactors.
 - Explain stereoselective synthesis with examples.
 - Explain sigmatropic rearrangement with examples.
 - Write theory and applications of phase transfer catalysis.
 - Explain solution phase peptide synthesis with any one case study.
 - Explain microwave assisted reactions, solvents used and applications.