

PARUL UNIVERSITY
FACULTY OF PHARMACY
M.Pharm. Examination, Summer 2017 - 18

Semester: 2**Subject Code: MPC202T****Subject Name: Advanced Organic Chemistry - II****Date: 16/05/2018****Time: 10:00 am to 1:00 pm****Total Marks: 75****Instructions:**

1. Figures to the right indicate maximum marks.
2. Make suitable assumptions wherever necessary.

Q.1 Essay Type Questions. (any 2 out of 3) (15 Marks Each) (30)

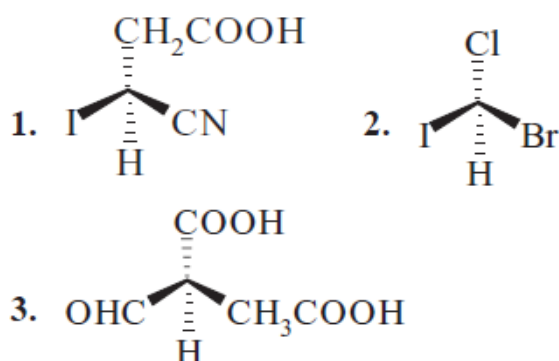
1. Write Microwave assisted synthesis and its application in various organic reactions in detail.
2. Define: Green Chemistry. Write principles of green chemistry with synthetic application.
3. Write Solid Phase Synthesis and its application in peptide synthesis.

Q.2 Short Essay Type Questions. (any 5 out of 6) (5 Marks Each) (25)

1. Write synthetic application of ultrasound assisted reaction.
2. Write difference between Fmoc and t-BOC in peptide synthesis.
3. Write short note on Cycloaddition reaction with example.
4. Discuss resolution of racemic mixture in brief.
5. Explain in brief about Photooxidation reaction in photochemistry.
6. Write a short note on Wilkinson catalyst in detail.

Q.3 Short Answers. (2 Marks Each) (20)

1. Trans isomer is more stable than Cis isomer. True or false, explain.
2. What do you mean by Cram's rule?
3. Explain Homogeneous vs Heterogeneous catalyst in brief.
4. Define (i) Meso compound (ii) Chiral pool
5. Define stereoselective and stereospecific reaction.
6. Find out the absolute configuration of following compounds.



7. Write abbreviation and structure formula of t-BOC and Fmoc.
8. Explain any one phase transfer catalyst in brief.
9. Explain in brief: Cope rearrangement
10. Draw the Jablonski diagram of Photochemistry.