

**QP CODE: 212331**

**Reg. No:.....**

**Second Semester M. Pharm Degree Supplementary Examinations  
January 2020**

**M.Pharm (Pharmaceutical Chemistry)**

**Paper II - Advanced Organic Chemistry-II (MPC 202T)**

**(2017 Scheme)**

**Time: 3 Hours**

**Total Marks: 75**

- Answer all Questions.
- Draw Diagrams wherever necessary.

**Essays**

**(3x10=30)**

1. What is green chemistry. Discuss the principle and applications of green chemistry in organic synthesis.
2. What are catalysts. Explain with examples. Explain the use of phase transfer catalysis with examples
3. Discuss about various solid supports and linkers in solid phase peptide synthesis. Write a note on use of enzymes in organic synthesis

**Short Notes**

**(9x5=45)**

4. The synthetic applications and limitations of ultrasound assisted reaction
5. The principle and advantages of continuous flow reactors
6. Give the basic principles of photochemical reactions
7. Explain electro cyclic reactions with suitable examples
8. Stereo selective synthesis
9. Regeneration of heterogeneous catalysts
10. Discuss the side reactions of three amino acids
11. Sequence rule
12. Explain the role of organocatalysis in organic synthesis

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