

THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY

[LP 946]

NOVEMBER 2019

Sub. Code: 2946

**M.PHARM. DEGREE EXAMINATION**  
**(PCI New regulations 2016)**  
**SEMESTER-II**  
**BRANCH-II – PHARMACEUTICAL CHEMISTRY – MPC**  
**PAPER II – ADVANCED ORGANIC CHEMISTRY – II**

*Q.P. Code : 262946*

**Time : Three hours**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define Sonochemical reactions. Discuss the different classes of Sonochemical reactions.
2. a) What are the groups commonly used to protect groups during peptide synthesis with examples.  
b) Explain residue analysis.  
c) Explain solution phase peptide synthesis with an example.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Chiral pool synthesis with an example.
2. Homogenous catalysis with examples.
3. Explain Wilkinson catalysis and Ziegler – Natta catalysts.
4. Solid phase peptide synthesis with an example.
5. Explain C-terminal residue analysis.
6. Write a note on Fischer's D and L notation.
7. Photo addition reactions.

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