

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

**[M.PHARM 0922]**

**SEPTEMBER 2022  
(APRIL 2022 EXAM SESSION)**

**Sub. Code: 2946**

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

*Q.P. Code : 262946*

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Define racemic modification. Explain the methods of resolution of racemic modification.
2. a) Explain the basic principles of photo chemical reaction.  
b) Explain photo addition and photo fragmentation reactions.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Sigmatropic rearrangement reaction and its application.
2. Phase transfer catalysis.
3. Synthetic applications of heterogeneous catalyst.
4. Discuss the working principle and synthetic applications of continuous flow reactors.
5. E and Z notation.
6. Super heating effect of microwave.
7. Explain Electrocyclic reactions.

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