

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

[LQ 0121]

**JANUARY 2021**

**Sub. Code: 2905**

**(APRIL 2020 EXAM SESSION)**

**M.PHARMACY DEGREE EXAMINATION**

**FIRST YEAR**

**BRANCH II – PHARMACEUTICAL CHEMISTRY**

**PAPER II – ADVANCED ORGANIC CHEMISTRY**

*Q.P. Code: 262905*

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Explain about the theory, orbital symmetry rules and their application.
2. Discuss about the theories of free radical reaction with mechanism and its importance.

**II. Write notes on:**

**(10 x 6 = 60)**

1. FGI.
2. Synthetic importance of addition reaction.
3. Importance of chiral drugs.
4. Enzymatic synthesis of chiral drugs.
5. Aromatic electrophilic substitution reaction.
6. Phase transfer catalysis in ester and ester hydrolysis.
7. Pericyclic reaction.
8. Synthetic importance of Meerwin-Pondroff's reduction.
9. Hoffman rearrangement.
10. How to protect and de protect of hydroxyl amino groups?

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