

[LI 344]

APRIL 2016

Sub. Code: 2905

**M.PHARM. DEGREE EXAMINATION  
FIRST YEAR  
BRANCH II – PHARMACEUTICAL CHEMISTRY  
PAPER II – ADVANCED ORGANIC CHEMISTRY**

*Q.P. Code: 262905*

**Time: Three hours**

**Maximum: 100 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. a) Describe the stability and structure of Free Radicals.  
b) Discuss about the mechanism of Free Radical addition and substitution reactions with examples.
2. a) Explain the techniques used for preparing Chiral drugs and give it's importance.  
b) Write a note on Retro synthetic analysis.

**II. Write notes on:**

**(10 x 6 = 60)**

1. Catalysts used in reduction reaction.
2. Write a note on Pericyclic reactions.
3. Describe the mechanism of Beckmann rearrangement.
4. Discuss about the basic concepts of Nanochemistry.
5. Give the applications of photochemical reactions.
6. Discuss about protection and deprotection of various groups.
7. Write a note about combinatorial chemistry.
8. Describe in detail the basicity of pyridine.
9. Explain the theory of acids and bases.
10. Give the mechanism and synthetic applications of Meerwin – pondroff's reduction.

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