

[LE 344]

APRIL 2014

Sub. Code: 2905

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

Q.P. Code : 262905

Time : 3 hours

Maximum : 100 marks

I. Elaborate on :

(2x20=40)

1. a) Explain in detail about the various types of pericyclic reactions and their mechanism.
b) What do you mean rearrangement reaction? Classify them. Explain the different steps involved in it.
2. a) Discuss on combinatorial chemistry with special reference to its application in drug discovery.
b) Write a note on aliphatic nucleophilic substitution.

II. Write notes on :

(10x6=60)

1. Mechanism of Walden inversion.
2. Orbital symmetry rules and its applications.
3. Oppenauer oxidation.
4. Theory of Photochemical reactions.
5. Mechanism and applications of Ozonolysis.
6. 'Cotton effect' and 'Octant rule'.
7. Synthesis of Phenothiazine and Purine.
8. Steps involved in Free radical reactions
9. Chemical bonding.
10. Techniques for preparing chiral drugs.
