

[LK 344]

MAY 2017

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) What is Elimination reaction? Explain the mechanism of E1 reaction.
b) Explain about the stereo chemical aspects of S_N1 and S_N2 reaction.
2. Discuss the reaction mechanism involved in Reformatsky reaction, Oppeneauer oxidation, Meerwin-Pondroff's reduction and Grignard reaction.

II. Write notes on:

(10 x 6 = 60)

1. Discuss the free radical mechanism for chlorination of methane.
2. Write about localized and delocalized chemical bond.
3. Give any three reactions of Furan and Phenothiazine.
4. Describe about the catalyst involved in hydrolysis.
5. Write a note on orbital symmetry rule and applications.
6. Define Chirality and give the importance of chiral drugs.
7. Explain in detail about retro synthetic analysis.
8. What is mesomeric effect? Explain its importance in organic reactions.
9. Explain the mechanism and characteristics of sigmatropic rearrangement reaction.
10. Explain about the role of combinatorial chemistry in drug discovery.
