

[LL 344]

OCTOBER 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) Distinguish the features of E1 and E2 elimination reactions.
b) Explain the techniques for the preparation of chiral drugs.
2. Discuss in detail about the following synthetic methodologies for obtaining drugs
 - a) Selective functional group Inter-conversions.
 - b) Disconnection approach.
 - c) Retro-synthetic analysis.

II. Write notes on:

(10 x 6 = 60)

1. Importance of Michael reaction.
2. Different types of peri-cyclic reactions with examples.
3. Hoffman rearrangement.
4. Importance of stereo selective synthesis.
5. Nucleophilic substitution reactions of pyridine.
6. Phase transfer catalysis in reduction reaction.
7. Neighboring group effect with suitable examples.
8. Delocalized chemical bonding.
9. Ozonolysis and its synthetic importance.
10. Basic theory of photo chemical reactions with its application.
