

February 2009

[KU 707]

Sub. Code: 4182

SECOND B.PHARM. DEGREE EXAMINATION
(ReRevised Regulations)
Candidates Admitted upto 2003-04
Paper II – ADVANCED PHARMACEUTICAL ORGANIC
CHEMISTRY
Q.P. Code : 564182

Time : Three hours

Maximum : 90 marks

I. Essay Questions : Answer any TWO questions (2 x 20 = 40)

1. **a)** Briefly explain the systematic method of nomenclature of Heterocyclic compounds, with suitable examples. **(6)**
b) Explain the synthesis of quinoline and main reaction. **(6)**
c) Give the preparation and reactions of triphenyl methane. **(8)**
2. Explain the following reactions:
a) Beckmann – rearrangement. **(5)**
b) Birch reduction. **(5)**
c) Meerwin-pondroff reduction. **(5)**
d) Asymmetric synthesis. **(5)**
3. **a)** Define Walden inversion. Explain the factor which affect its mechanism. **(10)**
b) What is racemic modification? Explain the different methods that are utilized for resolution of racemic modification. **(10)**

II. Write Short Notes : Answer any EIGHT questions (8 x 5 = 40)

1. Conventions used in stereochemistry.
2. Write the important properties of thiophen.
3. Explain the stability of cis-trans isomerism.
4. Write note on
a) Metalhydride reduction **b)** oxidation with selenium oxide
5. Write the structure and uses of following: **a)** Phenytoin **b)** Mepacrine
6. Give three reactions of phenothiazine.
7. Write a note on stereo chemistry of Biphenyls.
8. Medicinally important compounds of phenanthrene.
9. Give methods of preparation of anthracene.
10. Modern concept of double bond.

III. Short Answers: Answer any FIVE questions (5 x 2 = 10)

1. Define optical isomerism.
2. Chirality.
3. Dehydrogenation.
4. Give the structure and uses of primidone.
5. Atropisomerism.
6. Write the structure of Indole and pyrimidine.
7. What are triphenyl methane dyes?
