



(LG 4258)

FEBRUARY 2015

Sub. Code: 4258

**SECOND YEAR B.PHARM. EXAMINATION
PAPER III – ADVANCED PHARMACEUTICAL ORGANIC CHEMISTRY**

Q.P. Code: 564258

Time: Three hours**Maximum: 100 marks****I. Essay: (2 x 20 = 40)**

1. a) Write in detail about determination of configuration of geometrical isomerism.
b) Write notes on Beckmann rearrangement.
2. Explain the chemistry and constitution of Menthol and Vitamin A.

II. Short notes: (8 x 5 = 40)

1. Metal hydride reduction
2. Reactions of indole
3. Sequence rule for assigning configuration of optical isomers
4. Give the important electrophilic substitution reactions of pyrrole
5. Chemistry of caffeine
6. Structure and uses of citral and thymol
7. Synthesis of isoxazole
8. Chemistry of sennosides

III. Short answers: (10 x 2 = 20)

1. What is chirality?
2. What is Stereomutation?
3. Give the Structure and uses of folic acid
4. Define diastereomers
5. Explain the D and L system in optical isomerism
6. What is Stereoselective synthesis?
7. What is Catalytic dehydrogenation?
8. Give two methods of synthesis of imidazole
9. Classify flavonoids
10. Structure and uses of azepines
