

(LF 4258)

AUGUST 2014

Sub. Code: 4258

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

Q.P. Code: 564258

Time: Three Hours

Maximum: 100 marks

I. Essay:

(2X20=40)

1. a) What is Walden Inversion explain in detail the mechanism of reaction and factors affecting Walden inversion.
b) Give important methods of preparation and chemical reactions of Pyridine.
2. a) Give the structural elucidation of Atropine.
b) Give the definition, mechanism of reaction and applications of Meerwin pondroff reaction and Schimdt reaction

II. Short notes:

(8X5=40)

1. Explain Catalytic hydrogenation.
2. Explain the various methods of nomenclature of Geometrical isomers.
3. Write the chemistry of vitamin A.
4. Elucidate the structure of Caffiene.
5. Explain the chemistry of Lanatosides.
6. Give the Halogenation, Coupling reaction and Reduction reaction of Furan.
7. Write the synthesis of Pyrimidine.
8. Explain any five methods of resolution of racemic mixture.

III. Short Answers:

(10X2=20)

1. Give the application of mercuric acetate.
2. Write the structure and medicinal uses of Digitoxin and Theophylline.
3. Write the Friedal craft's reaction and Coupling reaction of Pyrrole.
4. Write any two reactions of Acridine.
5. Give the structure and medicinal uses of Thymol and Hesperidin.
6. Define Enantiomer and Diastereoisomer.
7. Define Clemmenson reaction with example.
8. Write any method of synthesis of phenothiazine.
9. List out the Alkaloidal reagents used for identification.
10. Classify glycosides based on the Aglycones present in it.
