

www.FirstRanker.com

www.FirstRanker.com

[LF 4258] AUGUST 2014 Sub. Code: 4258

SECOND YEAR B.PHARM. DEGREE EXAMINATION

Paper III – ADVANCED PHARMACEUTICAL ORGANIC CHEMISTRY

Q. P. Code: 564258

Time: Three Hours Maximum: 100 Marks

Answer All Questions

I. Essay Questions:

 $(2 \times 20 = 40)$

- 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.
- 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: $(8 \times 5 = 40)$

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

III. Short Answers: $(10 \times 2 = 20)$

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

