

(LD 4258)

AUGUST 2013

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. Elaborate on:

(2X20=40)

1. a) What are conformational isomers and write in detail about conformational analysis.
b) Describe the modern theories of double bond with suitable examples.
2. Elucidate the structure of uric acid. Discuss the inter relationship between caffeine, Theophylline and theobromine.

II. Write notes on:

(8X5=40)

1. Explain the Schmidt rearrangement with mechanism?
2. Give the chemical reactions of atropine.
3. Describe the chemistry and uses of Vitamin K.
4. Write a brief note on Asymmetric synthesis.
5. Give any two methods of preparation and any three reactions of Furan.
6. Write a brief note on catalytic hydrogenation.
7. What is chirality? Write their significance.
8. Write a note on Walden Inversion.

III. Short Answers on:

(10X2=20)

1. Write any two reactions given by pyrimidine.
2. What is Darzens reactions?
3. Give any two reactions of ephedrine.
4. Give any two reaction of indole.
5. Write any two uses of Lithium aluminium hydride.
6. Define alkaloids and give examples.
7. Write the structure and numbering of heterocyclic compounds pyrimidine and pyrrole.
8. Medicinal uses of Flavanoids.
9. Define racemic modifications.
10. Write a note on plane of symmetric.
