

Code No: B2104/R10

R10**II B.Pharmacy I Semester Regular Examinations, Mar 2014**
ADVANCED PHARMACEUTICAL ORGANIC CHEMISTRY

Time: 3 hours

Max Marks: 75

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Discuss the structure and reactions of Quinoline?
(b) Discuss the structure and reactions of Acridine? [8+7]
2. (a) Discuss the aromaticity in Benzimidazole and Phenothiazine
(b) Write note on heterocyclic compounds containing fused ring system [8+7]
3. (a) Explain the concept of E & Z configuration?
(b) Write a note on Fischer DL configuration? [7+8]
4. Write a note on
(a) Lobry De Bruyn Van Ekenstein reaction
(b) Epimerization
(c) Mutarotation
(d) oxidation- reduction reactions [15]
5. What are essential amino acids? Write the classification and methods of preparation of amino acids. [15]
6. (a) What are glycosides? Classify them with examples?
(b) Enzymatic hydrolysis
(c) Characterization of lipids
(d) Rancidity of oils and fats [15]
7. (a) Write the structures & uses of uric acid, caffeine, theophylline and theobromine
(b) Write a brief account on structure of DNA and RNA [8+7]
8. Write the detailed mechanism and applications of:
(a) Wittig reaction
(b) Hoffmann rearrangement
(c) Curtius rearrangement
(d) Schmidt reaction [4+4+4+3]
