Code No: B2104/R10 m 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
- 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]

[15]

- 8. Write the detailed mechanism and applications of:
 - (a) Wittig reaction
 - (b) Hoffmann rearrangement

(d) Rancidity of oils and fats

- (c) Curtius rearrangement
- (d) Schmidt reaction [4+4+4+3]

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