

Code No. 7207

FACULTY OF PHARMACY

B. Pharmacy II - Year I - Semester (Main) Examination, November 2013

Subject : Pharmaceutical Organic Chemistry - I

Time: 3 hours Max. Marks: 70 Note: Answer all questions. All questions carry equal marks. 1.a) i) Define and give the significances of Hydrogen bonding. 5 ii) Explain Isomerism with examples. 6 iii) Define with example dipole moment. 3 b) i) Give a note on polarity of molecules. 5 ii) Describe the progress of a reaction with energy diagram. 6 iii) Write the significance of resonance effect. 3 2.a) i) Write any four methods of synthesis of alkanes. 7 ii) Give the mechanism of free radical reactions. OR b) i) Explain the stability of cycloalkanes by different theories. 10 ii) Write the Anti Markonikov's addition. 4 3.a) i) How will you distinguish between primary, secondary and tertiary alcohols. 8 ii) Write any four methods of preparation of alkyl halides. 6 OR b) i) Explain the elimination reaction with mechanism. 7 ii) Give different methods of synthesis of ethers. 4.a) Give any four methods for the synthesis of carboxylic acids. 8 b) Write the synthetic applications of molonic ester. 6 b) i) Give any four methods for synthesis of ketones. 8 ii) Write the synthetic applications of aceto-acetic ester. 6 5.a) i) How do you differentiate between primary, secondary and tertiary amines with chemical reactions? 8 ii) Write the applications of Aryl diazosium salt. 6 OR b) i) Discuss any four methods for synthesis of secondary aromative amines. 8 ii) Give any three chemical reactions of aryl diazorium salt.
