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Subject Code: B13106/R13 I B. Pharmacy I Semester Regular Examinations Feb. - 2014 PHARMACEUTICAL ORGANIC CHEMISTRY-I

Time: 3 hours

Max. Marks: 70

Question Paper Consists of Part-A and Part-B Answering the question in **Part-A** is Compulsory, Three Questions should be answered from Part-B *****

PART-A 1.(i) What are free radicals? Discuss the stability of free radicals? Explain Bayers strain theory and its limitations. (ii) (iii) Compare and contrast SN^1 and SN^2 reactions. (iv) Write the Williamson's synthesis of ethers. (v) Explain the enantiomers with examples (vi) How do you prepare Grignard reagent? [4+4+4+3+3]PART-B 2.(a) Explain the addition of hydrogen halide to alkenes. Discuss theory of reactivity with examples? (b) [8+8] 3.(a) Give the mechanism of E1 and E2 reactions with suitable examples. (b) Discuss the various methods for preparation of alkanes. [8+8] Explain the sequence rules with examples. 4.(a) Write the products of the following reactions (b) Aqueous с – − CH₂Cl NaOH [8+8] Explain the stability of cycloalkanes. 5.(a) Explain about Saytzelf's rule with examples? (b) [8+8] 6. Define the following terms (a) Mesomeric effect (b) Electromeric effect (c) Optical acticity (d) Configuration and conformation [4+4+4+4]Write all possible steps in synthesis of isobutylene and 1- butane 7.(a) The order of reactivity of alcohols $3^{\circ} > 2^{\circ} > 1^{\circ}$ and explain, in details (b) What happens when ethanol is treated with potassium permanganate and explain? (c)

[6+6+4]

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