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?
 - (ii) Explain Bayers strain theory and its limitations.
 - (iii) Compare and contrast SN¹ and SN² 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+4+3+3]

PART-B

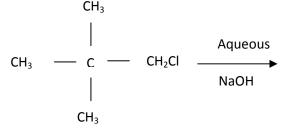
- 2.(a) Explain the addition of hydrogen halide to alkenes.
 - (b) Discuss theory of reactivity with examples?

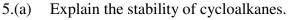
[8+8]

- 3.(a) Give the mechanism of E1 and E2 reactions with suitable examples.
 - (b) Discuss the various methods for preparation of alkanes.

[8+8]

- 4.(a) Explain the sequence rules with examples.
 - (b) Write the products of the following reactions





- (b) Explain about Saytzelf's rule with examples?
- 6. Define the following terms
 - (a) Mesomeric effect
 - (b) Electromeric effect
 - (c) Optical acticity
 - (d) Configuration and conformation



[4+4+4+4]

- 7.(a) Write all possible steps in synthesis of isobutylene and 1- butane
 - (b) The order of reactivity of alcohols $3^{\circ} > 2^{\circ} > 1^{\circ}$ and explain, in details
 - (c) What happens when ethanol is treated with potassium permanganate and explain?

[6+6+4]