Code No: B13106

SET - 1

## I B.Pharmacy I Semester Supplementary Examinations, February - 2019 PHARMACEUTICAL ORGANIC CHEMISTRY-I

Time: 3 hours Max. Marks: 70

**R13** 

Note: 1. Question Paper consists of two parts (Part-A and Part-B) 2. Answering the questions in **Part-A** is Compulsory 3. Answer any **THREE** Questions from **Part-B** PART -A a) Write short notes on hydrogen bond. (4M)Write all possible conformations of cyclopentane and comment on their stability. (4M) Write in brief on Saytzeff's rule. (3M)Write chemical methods used for resolution of resolution of a racemic mixture. (4M) Write structures of (i) (E)-2-methylpent-3-en-1-ol (ii) 2-ethoxypropane. (3M)Write characteristics of optical isomerism. (4M)PART -B Write methods of preparation of free radicals. Add note on its stability. (8M)Write in detail on Inductive effect. (8M)Classify alkenes with examples. Write three methods for preparation of alkenes. (10M)Discuss the mechanism and applications of ozonolysis. (6M)b) Write in detail on the mechanism and significance of E1 reactions. (8M)Write in detail on preparation of alkyl halides. (8M)Classify alcohols with examples. Write identification tests for -OH group. (8M)Discuss the methods used for hydrolysis of ethers. (8M)b) Write in detail on R and S configuration. (10M)Write in brief on Grignard reagent preparation and storage. (6M)Write reasons for the following. Isopropyl alcohol is more reactive towards Lucas test than propanol. (4M)But-1-ene gives positive reaction in Bayers test and Bromine water test. (4M) Addition of water molecule to Acetylene results in acetone. (4M) Tertiary carbocations are more stable than primary. (4M)