applications.

## I B. Pharmacy I Semester Supplementary Examinations, February - 2020 PHARMACEUTICAL ORGANIC CHEMISTRY-I

Time: 3 hours Max. Marks: 70 Note: 1. Question paper consists of two parts (Part-A and Part-B) 2. Answering the question in **Part-A** is Compulsory 3. Answer any FOUR Questions from Part-B PART -A a) What is a carbocation? (2M)b) Write structures of (2M)(i) (E)-2-methylhex-3-ene (ii) 1-chloro-3-methylcyclopentane c) What is a nucleophile? (2M)d) Write Lucas test. (2M)e) What is specific rotation? (2M)Why methanol is water soluble? (2M)What is center of symmetry? (2M)PART-B a) Write in detail on inductive effect and hyperconjugation. (6M)b) Write methods used for formation and stability of free radicals. (8M)Write reasons for the following (14M)(a) Hydroxy is considered as an electron donating group (b) Alkenes decolorize Bayer's reagent (c) Alkynes are acidic (d) Levo and dextro isomers of drugs shows different bioactivity 4. a) Write mechanism, and factors influencing SN<sup>1</sup> reaction. (8M)b) Write in detail on Saytzeff's rule. (6M)a) Write methods used for industrial production of ethanol. (6M)b) Write methods used for preparation and hydrolysis of ethers. (8M)a) Write methods used for resolution of racemic mixture. (10M)b) Write in brief on D, L configuration. (4M) 7. Write in detail on method of preparation of Grignard reagent and its synthetic (14M)