

Code No: PHR16116

R16**SET - 1****I B. Pharmacy I Semester Supplementary Examinations, February - 2019**
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**
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PART -A

1. a) What is a covalent bond? Give examples. (2M)
- b) Write tests for identification of unsaturation in organic compounds. (2M)
- c) What is Lucas test? (2M)
- d) Write structures of (i) ethyl isopropylether (ii) t-butanol (2M)
- e) What is a chiral carbon? Give example. (2M)
- f) Why $\text{-C}\equiv\text{CH}$ is acidic? (2M)
- g) What are geometric isomers? (2M)

PART -B

2. Write in detail on (14M)
a) Inductive effect b) Resonance
3. a) What are carbocations? Write methods used for their preparation. (6M)
- b) Explain the factors influencing stability and reactivity of carbocations. (8M)
4. a) Write in detail on Markovnikov's rule. (6M)
- b) Discuss the reactivity of butadiene. (8M)
5. a) Write methods used for preparation of alkyl halides. (8M)
- b) Write the mechanisms and significance of E1 reactions. (6M)
6. a) Classify alcohols with examples. Write a note on industrial production of ethanol. (8M)
- b) Explain the mechanism and synthetic applications of Williamson's synthesis. (6M)
7. a) Differentiate optical and geometric isomers. Add a note on relative configuration. (6M)
- b) Enumerate methods used for resolution of a racemic mixture. (8M)