

Bachelor of Pharmacy (B. Pharm) Third Semester CBS (Old)
BP 302 - Pharmaceutical Organic Chemistry-I

P. Pages : 1

Time : Three Hours



GUG/W/18/1159

Max. Marks : 80

- Notes :
1. All questions carry equal marks.
 2. Assume suitable data wherever necessary.
 3. Diagrams and Chemical equation should be given wherever necessary.
 4. Discuss the reaction, Mechanism wherever necessary.
 5. Que. No. **1** is compulsory. Solve **any four** questions from the remaining.

1. Explain the following terms **any four**. **16**
 - a) Resonance energy
 - b) Covalent bond
 - c) Hydrogen bonding
 - d) Bond electronegativity
 - e) Atomic orbital structure.
2. How are alkanes prepared, describe their important reactions and explain why alkenes are relatively unreactive. **16**
3. Discuss the chemical properties and method of preparation of alkynes. What are the uses of acetylene. **16**
4. Write a note on following **any four**. **16**
 - a) Markovnikov's rule
 - b) Ozonolysis
 - c) Kolbe's reaction
 - d) Pyrolysis
 - e) Peroxide effect.
5. Describe Kjeldahl's and Dumas methods for the estimation of Nitrogen in an organic compound with suitable diagram. **16**
6. Give a detail account on bimolecular elimination reaction along with all the evidences for proving the mechanism. **16**
7. a) Describe, draw and explain various types of conformation of the cyclohexane including factors affecting stability of conformation. **12**
b) Discuss about the Baeyer's strain theory. **4**
