

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

Time: 3 hours

Max. Marks: 75

Answer any **FIVE** Questions
All Questions carry **Equal** Marks

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1. a) Classify organic reactions with examples. Write a note on oxidation reaction. (7M)  
b) What is inductive effect? Write factors influencing inductive effect and its significance in organic chemistry. (8M)
2. a) Write a note on conformational isomerism in alkanes. (8M)  
b) What are free radicals? Write in brief on their reactivity. (7M)
3. a) Write three methods for preparation of alkenes. (6M)  
b) Write in detail on electrophilic addition reactions of alkenes. (9M)
4. Write short notes on the following.
  - a) Acidity of alkynes (5M)
  - b) Kekule structure of Benzene (5M)
  - c) Nucleophilic substitution reactions of halobenzene. (5M)
5. Write in detail on (15M)
  - (a) Friedel crafts acylation reaction
  - (b) Markovnikov's rule
6. a) Discuss the influence of substituents on electrophilic aromatic substitution reactions of mono substituted benzenes. (8M)  
b) Compare electronic structure and reactivity of naphthalene with benzene. (7M)
7. How do you achieve the following synthetic conversions?
  - a) Benzene to aniline (5M)
  - b) Propyne to acetone (5M)
  - c) But-2-ene to acetaldehyde (5M)
8. a) Differentiate SN1 and SN2 reactions. (5M)  
b) Write in detail on methods of preparation of alkyl halides. (10M)