SET - 1

(8M)

## I B. Pharmacy I Semester Supplementary Examinations, Jan/Feb - 2018 PHARMACEUTICAL ORGANIC CHEMISTRY-I

Time: 3 hours Max. Marks: 75 Answer any FIVE Questions All Questions carry Equal Marks 1. a) With a neat sketch explain the concept of resonance. (8M)b) Write short notes on carbocations. (7M) 2. Write reasons for the following. a) Alkanes are lipophilic. (4M) b) Benzene does not decolorize bromine water. (4M) c) C-F is more polar than C-Cl bond. (3M)d) Alkynes are acidic. (4M) 3. a) With a neat sketch explain the electronic structure of benzene. (8M)Write mechanism, reaction conditions and synthetic applicability of friedel crafts (7M)acylation. 4. a) Describe the structure and aromaticity of naphthalene. (6M) b) Write in detail on electrophilic substitution reactions of naphthalene. (9M)5. Write in detail on a) Hyperconjugation. (8M)b) Inductive effect. (7M)6. How do you achieve the following synthetic conversions? Aniline to p-bromoaniline. (5M)b) Pthalic anhydride from naphthalene. (5M)c) Methane to chloroform. (5M)7. a) Write the mechanism and orientation of E1 reactions. (8M)b) Write short notes on Saytzeff's rule. (7M)

reactions easily? WWW.MANARESULTS.CO.IN

8. a) Write three methods for preparation of alkyl halides.

With an example, explain why benzene does not undergo nucleophilic substitution (7M)