Code No: B13205 **R13** SET - 1

I B. Pharmacy II Semester Supplementary Examinations, March - 2022

PHARMACEUTICAL ORGANIC CHEMISTRY-II

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 **THREE** Questions from **Part-B**

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PART –A

1. a) Write in brief on Huckel rule. (4M)
   b) Writ reactions to differentiate 1^{o}, 2^{o} and 3^{o} amines. (3M)
   c) Write about acidity of carboxylic acid. (4M)
   d) Write in brief on reactivity of aryl halides. (4M)
   e) Write in brief on benzyne concept. (3M)
   f) Write in brief on Fries rearrangement. (4M)

PART –B

2. a) Write in detail on reactivity of alkyl halides. (8M)
   b) Explain the methods of preparation and reaction of naphthalene. (8M)
3. Write in detail on
   a) Mannich Reaction. (8M)
   b) Friedel-Craft's acylation. (8M)
4. a) Discuss the synthetic applications of diazonium salts. (8M)
   b) Write notes on Benzoin condensation. (8M)
5. Write mechanism, reaction conditions and synthetic applications of
   a) Michael addition. (8M)
   b) Schmidt reaction. (8M)
6. Write reasons for the following
   a) Ketones does not respond to Fehlings reagent. (4M)
   b) Acyl halides are more reactive than carboxylic acids. (4M)
   c) Cl is better leaving group than -OH group . (4M)
   d) Trimethylamine is more basic than ammonia. (4M)
7. How can you achieve the following synthetic conversions?
   a) Benzaldehyde to cinnamic acid. (6M)
   b) Benzoic acid to benzanilide. (5M)
   c) Aniline to phenol. (5M)
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