

Subject Code: B13205/R13

I B. Pharmacy II Semester Regular/Supply Examinations July - 2015

PHARMACEUTICAL ORGANIC CHEMISTRY-II

Time: 3 hours

Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**

PART-A

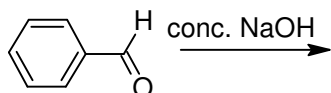
- Write a note on aromaticity of Benzene.
 - Give any two methods of preparation of aldehydes.
 - Arrange the following acids in increasing order of acid strength.
p-Nitro benzoic acid, p-Methyl benzoic acid and Benzoic acid
 - Explain the industrial preparation of phenol.
 - Write a note on basicity of amines.
 - Describe the mechanism of Mannich reaction.

[4+4+3+3+4+4]

PART-B

- Explain the mechanism of Friedel-Craft's alkylation and its limitations.
 - How bromobenzene react with strong base like sodamide? Explain the mechanism.
- What are the products of the following reaction? Write its name and mechanism.

[8+8]



- Give the nucleophilic addition reaction of acetophenone with Grignard reagent.
 - Write a note on Perkin condensation reaction of aromatic aldehyde.
- Explain the mechanism of Esterification.
 - Give any two methods of preparation of malonic ester from carboxylic acid.
 - Write any three pharmaceutical applications of acetoacetic ester.

[6+4+6]

[6+4+6]

- Write a note on:
 - Kolbe reaction
 - Riemer-Tiemann reaction
 - Explain the effect of different substituents on acidity of phenols.

[8+8]

- How can you distinguish 1^o, 2^o and 3^o amines in laboratory? Explain. 6M
 - How will you effect following conversions? Suggest the mechanisms. 10M



[6+10]

- Give the mechanism of Fries rearrangement.
 - Write a detail note on Michael addition.

[8+8]



R10

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