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**B. Pharmacy (Fourth Semester) Examination,
April-May 2016**

(New Scheme)

(Pharmacy Branch)

PHARMACEUTICAL CHEMISTRY-IV

(Organic Chemistry-3)

Time Allowed : Three hours

Maximum Marks : 70

Note : Attempt any five questions. All questions carry equal marks.

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1. (a) What do you understand by aromaticity? Explain Huckel's rule.

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(b) Discuss electrophilic substitution reaction. Give the mechanism of Friedel Craft reaction.

2. What do you mean by heterocyclic compound? Explain nomenclature structure and reaction of any one of your choice. **CSVТУonline.com**
3. Explain the nomenclature and preparation of ester with special emphasis on malonic ester.
4. (a) What do you understand by cycloalkane? Give one method of preparation of cycloalkane?
(b) Describe Baeyer's Strain Theory and discuss its limitations.
5. Explain the reactions and mechanism of the following :
(any two)
 - (a) Mannich reaction
 - (b) Backmann reaction **CSVТУonline.com**
 - (c) Fitting reaction
 - (d) Dielsden's reaction
6. (a) Discuss organic reagent used in drug synthesis.

(b) Method of preparation of Aniline and its chemical reactions.

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7. Write short notes on any three :
 - (a) Basicity of Amine
 - (b) Acidity of Phenol
 - (c) Catalytic hydrogenation
 - (d) Aromatic carboxylic group

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