

Roll No.

[2]

341418(41)

**B. Pharmacy (Fourth Semester) Examination,
Nov.-Dec. 2017**

(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.

1. What are heterocyclic compounds. Discuss the nomenclature, structure and reaction of Imidazole and pyrimidine.

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2. What are amines? Discuss the nomenclature, general methods of preparations, basicity and chemical properties of amines.
3. What are phenols. Explain the general method of preparation, acidity and properties of phenols.
4. Discuss following reactions and its mechanism :
- (a) Mannich reaction
 - (b) Birch reduction
 - (c) Di-alder reaction
 - (d) Fitting reaction
5. What are Electrophile and Nucleophiles. Explain electrophilic aromatic substitution reactions with its mechanism. <http://www.csvtuonline.com>
6. Discuss aromatic character of benzene with reference to Huckel rule. Discuss the structure, resonance and method of preparation of Benzene.
7. Write short notes (any two) :
- (a) Synthesis of Malonic ester and their application

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- (b) Bayer strain theory
- (c) Catalytic hydrogenation
- (d) Aniline

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