

**341418(41)**

**B. Pharmacy (Fourth Semester) Examination,  
April-May 2018**

**(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 14 marks.*

1. (a) Write synthesis of Malonic ester and give its synthetic applications.

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- (b) Give any method of preparation for 1° or 2° or amine and provide alkylation reaction on amines its chemical properties.

2. (a) Describe the stability of cyclo alkanes (Bayer Strain Theory).

- (b) Describe the electrophelic aromatic substitution reaction with mechanism.

3. (a) How aromatic amines are prepared give any method and give any characteristics reaction of aniline.

- (b) Give any characteristic reaction involve in the benzene ring of aromatic phenols.

4. (a) Describe the Manrich reaction or Beckmann reaction with their mechanism of reaction.

- (b) Enlist some organic reagants usefull in drig synthesis and give preparation method and application of any one of them.

5. Give structure and synthetic reaction fo pyrrole or furame.

6. Write short notes on any two :

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a) Nucleophilic aromatic substitution reaction.

b) Role of inductive effect an aromatic carboxylic acid for their acidity. http://www.csvtuonline.com

(c) Huckel Rule

(d) Imidazole

Give nomenclature of the following comp : (any two) 14

