

**341418(41)**

**B Pharmacy (Fourth Semester) Examination,  
April-May 2019**

**(New Scheme)**

**(Pharmacy Branch)**

**PHARMACEUTICAL CHEMISTRY - I**

**(Organic Chemistry - 3)**

**Time Allowed : Three hours**

**Maximum Marks : 70**

**Note : Attempt all questions.**

- 1. (a) Write the preparation, properties and uses of malonic ester. 2

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- (b) Give the method of preparation, physical and chemical properties with special compare on basicity of any amine.

- 2. (a) Describe the stability of benzene by resonance and give the electrophelic substitution reaction with mechanism on benzene.

- (b) Describe the stability of cyclo alkane and chemical properties of any one cycloalkane.

- 3. (a) Write the method of preparation and some characteristic reaction of aniline or phenol. 2

- (b) Write about aromatic carbonylic acid in short. 7

- 4. What are heterocyclic compound give nomenclature and some important reactions with mechanism of any two heterocyclic compound. 14

- 5. (a) Give the mechanism of action of mannic reaction or Dial dns reaction. 7

- (b) Write about the organic reagents used in drug synthesis with the special reference to their mechanism of reaction. 7

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Write short note on any two :

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- (i) Nucleophilic aromatic substitution reaction
- (ii) Beckmann reaction
- (iii) Catalytic hydrogenation

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