

**341418(41)**

**B. Pharmacy (Fourth Semester) Examination,  
April-May 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 14 marks.*

1. Write methods of preparation and chemical properties of amines. Distinguish between primary, secondary and tertiary amines. 10+4

**341418(41)**

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[ 2 ]

2. Explain Bayer strain theory. What are the various conformational isomers of cyclohexane? Write general methods of preparation of cyclohexane. 4+4
3. Write short notes on : (any two) 2x7
  - (a) Fitting reaction
  - (b) Di Alder reaction
  - (c) Mannich reaction
  - (d) Beckman reaction
4. Write structure and reaction of Furan and Indole. 7+7
5. Explain resonance properties and aromatic character of Benzene. Discuss electrophilic substitution reaction of benzene taking example of Friedel Craft alkylation. 5+9
6. Write methods of preparation and chemical properties of Aniline. Explain acidity of phenols and basicity of amines. 10+4
7. Name some organic reagents used in drug synthesis. Write synthesis of Malonic ester. Discuss catalytic hydrogenation of benzene. 4+5+5

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**341418(41)**