

**(LE 4252)**

**FEBRUARY 2014**

**Sub Code: 4252**

**FIRST YEAR B.PHARM. EXAM**

**Paper II – PHARMACEUTICAL ORGANIC CHEMISTRY**

***Q.P. Code: 564252***

**Time: Three hours**

**Maximum: 100 marks**

**I. Elaborate on:**

**(2X20=40)**

1. a. Write down the general methods of preparation of alkyl and aryl halides  
b. Explain the methods of preparation and synthetic utility of aceto-acetic ester.
2. a. Write in detail about resonance effect and intramolecular forces in organic compounds.  
b. Explain in detail about ozonolysis and Baeyer's strain theory.

**II. Write Notes on:**

**(8 x 5 =40)**

1. Describe the Methods of preparation of alkane
2. Describe the Mechanism of Diel's-Alder Reaction
3. Give the preparation and medicinal uses of amphetamine
4. What are Grignard reagent and give synthetic utility
5. Explain about Williamson ether synthesis and Reimer–Tiemann reaction
6. Explain about Markownikoff's rule with example
7. Discuss the Basicity of amines
8. Discuss about nucleophilic aromatic substitution reaction with examples

**III. Short Answers on:**

**(10 x 2 =20)**

1. Dicyclohexane
2. Carbenes
3. Ketones
4. Anthracene
5. Hyperconjugation
6. Wave equations
7. Diphenyl methane
8. Citric acid
9. Iodoform
10. Inductive effect

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