

**First Year B.Pharm Degree Supplementary Examinations June 2019**

**Pharmaceutical Chemistry - II**

**(Organic Chemistry)**

**(2010 Scheme)**

**Time: 3 Hours**

**Total Marks: 100**

- Answer all Questions.
- Write equations wherever necessary.

**Essay**

**(3x10=30)**

1. Explain the stability and structure of benzene
2. Describe three general methods of preparation of alcohols, carboxylic acids and ketones
3. Explain the mechanism and synthetic applications of Perkin's reaction and diazotization reaction

**Short notes**

**(14x5=70)**

4. Explain Walden inversion with example
5. Mechanism of aldol condensation
6. Explain acidity of phenols
7. Mention the synthesis and importance of malonic ester
8. Explain Sachse-Mohr theory with an example
9. Discuss the mechanism involved in chlorination of methane
10. Describe Kolbe-Schmidt reaction
11. Explain Bayer's oxidation of alkenes
12. Kharasch effect with example
13. Stereo specific reduction of alkynes
14. Any two methods of the preparation of ether
15. Discuss decarboxylation reaction in carboxylic acids
16. Mechanism of nitration in benzene
17. Explain Hinesburg method of separation of amines

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