QP CODE:104326	Reg. No:
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## First Year Pharm D Degree Regular/Supplementary Examinations September 2024

## **Pharmaceutical Organic Chemistry**

Time: 3 Hours Total Marks: 70

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Write equation wherever necessary.

Essay (3x10=30)

- 1. Describe about Bayer's strain theory and explain how sache-mohr theory accounts for pit falls of Bayer's theory.
- 2. Explain the mechanism of Friedel crafts acylation and alkylation.
- 3. Classify substituents. Explain their influence on electrophilic aromatic substitution in terms of orientation and reactivity.

Short notes: (8x5=40)

- 4. Explain SN1 mechanism with suitable examples and give evidence.
- 5. Write the mechanism involved in aldol condensation.
- 6. Explain about the oxidation and reduction reactions.
- 7. Describe the mechanism of dehydration of alcohol.
- 8. Explain the kinetics and mechanism of E2 reaction.
- 9. Explain the preparation, test for purity and assay of salicylic acid.
- 10. Write the free radical halogenation reaction of alkenes with mechanism.
- 11. Explain Markownikoff's rule and peroxide effect.

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