## First Year Pharm D Degree Examinations July 2018

## Pharmaceutical Organic Chemistry

## Time: 3 Hours

- Answer all Questions.
- Write equation wherever necessary.

### Essay

- 1. Give the stereochemistry, mechanism and reactivity of SN<sub>2</sub> reaction. Add a note on stereochemistry of SN<sub>1</sub> reaction.
- 2. Explain the theory of orientation with suitable examples in electrophilic aromatic substitution.
- 3. Discuss the mechanism involved in Cannizaro's reaction and Benzoin condensation.

#### Short notes:

- 4. Explain Williamson's synthesis and diazotization reaction.
- 5. Define and give the classification of isomers.
- 6. Peroxide effect.
- 7. Explain Friedel craft acylation with mechanism.
- 8. Explain Hoffmann's degradation of amides.
- 9. Explain the basicity of amines.
- 10. What are conjugated dienes and add a note on their stability.
- 11. Explain chlorination of methane with mechanism.

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## Q P CODE: 104326

# Total Marks: 70

(3x10=30)

(8x5=40)