QP CODE:104326	Reg. No:

First Year Pharm D Degree Supplementary Examinations December 2019 Pharmaceutical Organic Chemistry

Time: 3 Hours Total Marks: 70

- Answer all Questions.
- Write equation wherever necessary.

Essay (3x10=30)

- 1. Define resonance. Explain in detail the nucleophilic substitution in allylic and vinylic substrates.
- Discus the general mechanism involved in electrophilic aromatic substitution.
 Mention the products for bromination of nitrobenzene. Name few activating and deactivating groups.
- 3. Explain the mechanism and evidences for E_2 reactions.

Short notes: (8x5=40)

- 4. Hydrogen bonding.
- 5. Propose a suitable class of solvents to carry out SN₁ and SN₂ reactions. Justify your answer.
- 6. Explain the nucleophilic aromatic substitution via benzyne mechanism.
- 7. Explain the reactions involved in the addition of hydrogen bromide to an alkene.
- 8. Mention the reaction along with mechanism involved in Michael addition.
- 9. What is Sand Meyer's reaction and mention its importance.
- 10. Describe the method of preparation and medicinal uses of benzyl benzoate and mephenesin.
- 11. Mention the structures for the following:
 - •3-methyl butanal 3-chloro, cyclohexanol
 - •1, 3-butadiene •Ethyl butanoate
 - Resorcinol
