QP CODE:104326	Reg. No:
Q .	

First Year Pharm D Degree Regular/Supplementary Examinations February 2023 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 the factors affecting the nucleophilic aliphatic substitution reactions.
- 2. Describe in detail about the reaction mechanisms involved in Benzene.
- 3. State Markownikoff rule. Explain the mechanism involved in addition of hydrogen halides and peroxide effect.

Short notes: (8x5=40)

- 4. Explain the Lowry Bronsted concepts of acid and bases.
- 5. Write the methods of preparation of cyclo alkanes.
- 6. Phase transfer catalysis.
- 7. Why nucleophilic substitution at vinylic carbon is extremely slow compared to substitution at saturated carbon.
- 8. Reformatsky reaction.
- 9. Explain about the diazotization reaction.
- 10. Add a note on oxidation reduction reaction with examples.
- 11. Write the preparation, assay and uses of salicylic acid and ethyl benzoate.
