

QP CODE:104326

Reg. No:

**First Year Pharm D Degree Regular/Supplementary Examinations
October 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. Explain briefly various reactions and mechanisms involved in the dehydrohalogenation of alkyl halides.
2. Give an account of acid and base on the basis of Lewis theory and Lowry Bronsted concept.
3. Explain briefly on a) Basicity of amines b) Diazotisation and coupling of amines.

Short notes:

(8x5=40)

4. Define isomerism. Write a note on structural isomerism.
5. Write a note on Clemmenson reduction.
6. Brief out on Reformatsky reaction with mechanism.
7. State the theory of resonance and sketch out the orbital picture of allyl radical.
8. Give an account on the isotope effect in elimination reactions.
9. Write a note on cycloaddition reactions.
10. Give an account on the preparation, test for purity, assay and medicinal uses of chlorbutol and urea.
11. Briefly write on the polarity of molecules.
