

QP CODE:104326

Reg. No:

**First Year Pharm D Degree Supplementary Examinations
August 2021
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. Define and classify isomerism. Describe structural isomerism with example.
2. Explain 1, 2 elimination. Write the mechanism, orientation and reactivity of E1 and E2 reaction with appropriate examples.
3. Explain the nomenclature of alkenes and amines. Discuss the free radical chain reactions of alkanes.

Short notes:

(8x5=40)

4. Dehydro halogenation of alkyl halides
5. Explain Bayer's theory for stability of cycloalkanes
6. Elimination vs substitution
7. Explain polarity and dipole moment with examples
8. Acidity of phenols
9. Describe nucleophiles and leaving group
10. Explain the mechanism of free radical addition reaction with suitable example
11. Explain the structure, assay and uses of vanillin and nitroglycerin
