

QP CODE:104326

Reg. No: .....

First Year Pharm D Degree Supplementary Examinations March 2024

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. Enumerate the mechanism involved in the peroxide-initiated addition of hydrogen bromide to alkenes.
2. Explain the mechanism, kinetics and orientation of E1 and E2 reactions.
3. Compare and comment on aliphatic nucleophilic substitution and aromatic nucleophilic substitution.

Short notes:

(8x5=40)

4. Explain about allylic rearrangement.
5. Walden inversion.
6. Add a note on the acidity of phenols.
7. Bimolecular displacement mechanisms.
8. Dienes and its types.
9. What are cycloalkanes. Give example. How the cycloalkanes are prepared.
10. Add a note on isomerism.
11. Preparation, tests for purity, assay and uses of aspirin.

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