First Year Pharm D Degree Supplementary Examinations May 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

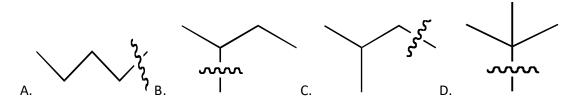
(3x10=30)

- 1. Explain in detail about Bayer strain theory and its limitations.
- 2. Elaborate about the E2 and E1 reactions with mechanism and kinetics.
- 3. Explain the mechanism of Hoffman rearrangement, with synthetic applications and peroxide effect.

Short notes:

(8x5=40)

- 4. Add a note on types of solutes and solvents with suitable examples.
- 5. Mention the rules for IUPAC nomenclature and three basic parts in naming the organic compounds with examples. Name the following



- 6. Differentiate S_N^1 and S_N^2 reactions.
- 7. Rearrangement of carbocation.
- 8. Define acidity constant and effect of substituents on acidity of carboxylic acids.
- 9. Define basicity constant and compare the basicity between the aliphatic and aromatic amines.
- 10. Write the preparation, assay and uses of Nitro-glycerin.
- 11. Discuss about Reimer-Tieman's reaction.
