QP Code: 222006 Reg. No.....

## Second Semester B. Pharm Degree Supplementary Examinations August 2023

## Pharmaceutical Organic Chemistry I (2017 Scheme)

Time: 3 Hours Max. Marks: 75

- 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
- Draw table/diagrams/flow charts wherever necessary

Essays (2x10=20)

- 1. Explain the mechanism of electrophilic addition reactions of alkenes.
- 2. Discuss SN<sub>2</sub> reaction mechanism of substitution in alkyl halides.

Short Notes (7x5=35)

- 3. Write the general qualitative tests for carboxylic acids.
- 4. Discuss E1 mechanism of dehydrohalogenation in alkenes.
- Rearrangement of carbocation.
- 6. What is structural isomerism. Define with examples of any four types.
- 7. Factors effecting SN<sub>1</sub> an SN<sub>2</sub> reactions.
- 8. Allylic rearrangement.
- 9. Explain the effect of substituents on the basicity of aliphatic amines.

Answer Briefly (10x2=20)

- 10. Explain the structure and use of lodoform.
- 11. Compare  $E_1$  and  $E_2$  reactions.
- 12. Explain the structure and uses of Amphetamine.
- 13. State any four rules of naming aromatic compounds.
- 14. Explain anti Markownikoff's orientation. Give examples.
- 15. Write qualitative tests for alcohols.
- 16. Briefly explain free radical addition reactions of conjugated dienes.
- 17. Give the structure and uses of Acetyl salicylic acid.
- 18. Explain the reaction involved in Perkin condensation.
- 19. Write the structure of 1,4-pentadiene and Hex-5-ene-3-ol.

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