

QP Code: 222006

Reg. No.....

**Second Semester B. Pharm Degree Regular/Supplementary  
Examinations February 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. Write the mechanism, kinetics, stereochemistry and reactivity of  $SN_1$  reaction.
2. Explain Markownikoff's orientations with suitable examples.

**Short Notes**

(7x5=35)

3. Write the structure and uses of dichloromethane, iodoform, ethyl chloride, chloroform and tetrachloroethylene.
4. Write any two preparation and reactions of carboxylic acids.
5. Explain structural isomerism along with its examples.
6. Crossed aldol condensation.
7. Write any three methods of preparation of alcohols.
8. Write the general qualitative tests of aldehydes with reaction.
9. Explain the stability of conjugated dienes.

**Answer Briefly**

(10x2=20)

10. Define Saytzeff's rule.
11. Write the uses of acetic acid and oxalic acid.
12. Draw the structure of acetyl salicylic acid and amphetamine.
13. What is electromeric effect.
14. Construct the structure for 1-bromopentene and 3-chlorobutane.
15. Write any two qualitative tests for amides.
16. Define  $SP_3$  hybridization.
17. Write about  $E_1$  Vs  $E_2$  reaction.
18. Briefly write a note on halogenation of alkanes.
19. Perkin condensation reaction.

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