

QP Code: 222006

Reg. No.....

**Second Semester B. Pharm Degree Regular/Supplementary
Examinations June 2022**

**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. What is Cannizzaro reaction and Benzoin condensation reaction. Explain with mechanism.
2. Compare SN_1 reaction and SN_2 reaction. Explain the reactivity of reactants in SN_1 reaction and rearrangement of carbocations

Short Notes

(7x5=35)

3. Explain inductive effect with a suitable example.
4. Explain Anti-Markownikoff's orientation.
5. Explain the electrophilic addition reactions of alkenes.
6. Discuss SP^3 hybridization in alkanes.
7. Explain the factors affecting E_1 and E_2 reactions.
8. Give the structure and uses of lactic acid and glycerol
9. Three general methods of preparation of alcohols.

Answer Briefly

(10x2=20)

10. Mention the IUPAC name of $CH_2=CH-CH_2-CH_2-CH=CH_2$
11. Explain positional isomerism with an example.
12. Give the structure of acetic acid and propylene glycol.
13. What are the uses of cetosteryl alcohol and iodoform
14. Why formaldehyde doesn't undergo aldol condensation.
15. Explain Saytzeff's rule.
16. Give the structures of amphetamine and benzaldehyde.
17. Give two qualitative tests for amines.
18. Structural formula for 2,3-dimethylbutane.
19. Electromeric effect.
