

QP Code: 222006

Reg. No.....

**Second Semester B. Pharm Degree Supplementary Examinations
September 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. Describe the reaction and mechanism in • Cannizaro reaction • benzoin condensation.
2. Explain the kinetics, mechanism, orientation and reactivity of E₁ reaction.

Short Notes

(7x5=35)

3. Describe the stability of conjugated dienes.
4. Write any two preparation of amines. Write the structure and uses of ethylenediamine.
5. Write the IUPAC rules for naming cycloalkanes.
6. Write the structure and uses of chloral hydrate, cinnamaldehyde, dimethyl phthalate, cetostearyl alcohol and vanillin.
7. Explain about nucleophilic addition reactions of carbonyl compounds.
8. Why alkenes are more reactive than alkanes. Explain.
9. Write the IUPAC rules for naming alkyl halides.

Answer Briefly

(10x2=20)

10. Effect of substituents on the acidity of carboxylic acids.
11. Explain any two preparations of ketones.
12. Define peroxide effect.
13. Why methane is insoluble in water.
14. What are carbocation.
15. Explain any two qualitative tests for oxalic acid and benzoic acid.
16. Classify amines with examples.
17. Ozonolysis
18. Diel's Alder reaction.
19. Crossed Aldol condensation.
