

QP Code: 222006

Reg. No.....

**Second Semester B. Pharm Degree Supplementary Examinations
April 2024**

**Pharmaceutical Organic Chemistry I
(Common for 2017 and 2022 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 in detail about the Cannizzaro reaction and aldol condensation reaction.
2. Elaborate Markownikoff's and anti- Markownikoff's orientation with suitable examples.

Short Notes

(7x5=35)

3. Write the structure and uses of cetosteryl alcohol, hexamine, cinnamaldehyde, benzoic acid and methyl salicylate.
4. Explain the acidity of carboxylic acids and the effect of substituents on it.
5. Explain the qualitative tests for aldehyde and ketones.
6. Classify organic compounds. Give the IUPAC nomenclature rules for alkanes.
7. Describe structural isomerism with suitable examples.
8. Describe ozonolysis of alkene with its mechanism.
9. Outline Diel-Alder reaction with suitable examples.

Answer Briefly

(10x2=20)

10. Any two reactions of carboxylic acids.
11. Mention the uses of paraffin.
12. Write the factors affecting SN₁ reactions.
13. Give the chemical structure and uses of vanillin and paraldehyde.
14. Mention four aliphatic carboxylic acids with chemical structures.
15. What are conjugated dienes. Give two examples.
16. Outline any one test distinguishes primary, secondary and tertiary alcohols.
17. Define Perkin condensation.
18. Any one method of preparation of aldehyde.
19. Write the structure and uses of amphetamine and ethanolamine.
