

QP Code: 222006

Reg. No.....

**Second Semester B. Pharm Degree Regular/Supplementary
Examinations May 2021**

**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_2 reaction.
2. Classify organic compounds. Give the IUPAC nomenclature rules for alkanes and cycloalkenes.

Short Notes

(7x5=35)

3. Describe ozonolysis with suitable examples.
4. Trimethylamine is a stronger base than ammonia. Explain.
5. Aldol condensation.
6. Write the structure and uses of trichloroethylene, tetrachloromethane, chlorobutanol, propylene glycol and hexamine.
7. Write the general qualitative tests for amines and esters with reaction.
8. Explain the stability of alkenes.
9. Acidity of carboxylic acids. Give the structure and uses of succinic acid.

Answer Briefly

(10x2=20)

10. What is the order of stability of carbocations.
11. Write the uses of vanillin and paraldehyde.
12. Draw the structure of salicylic acid and lactic acid.
13. What is an inductive effect.
14. Construct the structure for 1, 2-dichlorocyclopentane and 1, 3-butadiene.
15. Write any two qualitative tests for ethyl alcohol.
16. Define SP_2 hybridization.
17. Write about E_1 Vs E_2 reaction
18. Diel's Alder reaction.
19. Benzoin condensation.
