

QP Code: 222006

Reg. No.....

**Second Semester B.Pharm Degree Regular/Supplementary
Examinations August 2019**

**Pharmaceutical Organic Chemistry I
(2017 Scheme)**

Time: 3 Hours

Max. Marks: 75

- Answer all questions
- Write equations wherever necessary

Essays

(2x10=20)

1. Explain crossed aldol condensation and crossed Cannizzaro reaction with mechanism.
2. Explain the kinetics and stereochemistry of SN_2 reaction. Discuss about the solvent effects in SN_2 reaction.

Short Notes

(7x5=35)

3. Explain Markownikoff's orientation.
4. Explain the halogenation of alkanes.
5. Explain any three evidences for E_2 mechanism.
6. Explain the factors affecting SN_1 reaction.
7. Discuss the order of reactivity of alkyl halides in E_1 , E_2 , SN_1 and SN_2 reactions.
8. Discuss the basicity of amines.
9. Give the structure and uses of salicylic acid and benzyl benzoate.

Answer Briefly

(10x2=20)

10. Give two general methods of preparation of alkenes with equations.
11. Mention the IUPAC name of $CH_2=CH-CO-CH_3$
12. Structural formula for 2-methylbutane.
13. Give the structures of oxalic acid and ethanol.
14. The uses of glycerol and chloroform
15. Define electromeric effect.
16. What is ozonolysis. Give an example.
17. What is hybridization.
18. Give two qualitative tests for carboxylic acids
19. Explain functional isomerism with an example
