

QP Code: 222006

Reg. No.....

**Second Semester B.Pharm Degree Supplementary Examinations
January 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 aldol condensation and perkin condensation reaction with mechanism.
2. Explain the kinetics and stereochemistry of SN_1 reaction. Mention the order of reactivity of alkyl halides in SN_1 reaction.

Short Notes

(7x5=35)

3. Explain Diels Alder reaction.
4. Explain E_1 reaction mechanism with suitable example
5. Give any three general methods of preparation of alkyl halides with equations.
6. Give the structure and uses of acetyl salicylic acid and chlorobutanol
7. Discuss the acidity of carboxylic acids
8. Classify organic compounds with examples.
9. Discuss SP^2 hybridization in alkenes.

Answer Briefly

(10x2=20)

10. Structural formula for 3-Ethylhexane.
11. Explain chain isomerism with an example
12. Give the structures of iodoform and methyl salicylate
13. What are the uses of tartaric acid and citric acid
14. Why acetaldehyde does not undergo Cannizzaro reaction.
15. What is inductive effect.
16. Give the structures of cinnamaldehyde and ethylene diamine
17. Give two qualitative tests for aldehydes.
18. Mention the IUPAC name of $CH_2=CH-CH_2-I$
19. State Markovnikov rule.
