

QP CODE:104326

Reg. No:

First Year Pharm D Degree Examinations July 2019

Pharmaceutical Organic Chemistry

Time: 3 Hours

Total Marks: 70

- Answer all Questions.
- Write equation wherever necessary.

Essay

(3x10=30)

1. Explain briefly about Cannizaro reaction and Benzoin condensation with its mechanism
2. Describe nucleophiles and leaving group. Write the mechanism, kinetics and stereochemistry of SN1 and SN2 reactions.
3. Explain 1, 2 elimination. Write the mechanism, orientation and reactivity of E1 and E2 reaction with appropriate examples.

Short notes:

(8x5=40)

4. Explain Lewis theory of acid and base with examples
5. Write any two method of preparation of cycloalkanes
6. Explain Markownikoff and Anti Markownikoff addition with examples
7. Discuss the decarboxylation reaction in carboxylic acids. Give a note on stability of carboxylate ion.
8. Give the mechanism of 1,2- and 1,4- addition reaction
9. Acidity of phenols
10. Define and classify isomerism with example
11. Explain Claisen condensation with its mechanism
