

Roll No.

Y – 3244

**M.Sc. (Pharmaceutical Chemistry) (Second Semester) EXAMINATION,
June 2021**

Paper – PC - 204

FUNDAMENTAL OF ORGANIC REACTIONS

Time : Three Hours

Maximum Marks : 85

Minimum Pass Marks : 29

Note—Attempt *all* questions.

Unit-I

1. Discuss the mechanism of SN¹ and SN² reactions. Give energy profiles for both reactions. 17

Unit-II

2. Discuss any of the following reactions— 17
- (i) Electrophilic Nitration.
- (ii) Sulphonation.

Unit-III

3. Discuss the mechanism of Unimolecular and Bimolecular [E¹ and E²] elimination reactions. 17

Unit-IV

4. Give the mechanism of following reactions— 17
- (i) Asymmetric epoxidation.
- (ii) Ozonolysis.

Unit-V

5. Describe the following— 17
- (i) Bromination by N-bromo succinamide.
- (ii) Autooxidation.

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