

Roll No.: \_\_\_\_\_

Enrollment No. \_\_\_\_\_

**PARUL UNIVERSITY**  
**PARUL INSTITUTE OF PHARMACY**

**M.PHARM FIRST SEMESTER · FIRST INTERNAL EXAMINATION: 2018-19**

**Subject Name: Advanced Organic Chemistry-I**

**Subject Code: MPC102T**

**Time: 10:00 am to 11:30 am**

**Date: 18-09-2018**

**Total Marks: 30**

**Instructions:**

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

**Q.1 Long Answers: (Any One)**

- (1) Write short note on kinetics and reactivity of  $SN_1$  and  $SN_2$  reaction. **10**
- (2) Write stereochemistry and evidence of elimination reaction. **10**

**Q.2 Short Answers: (Any Four)**

- (1) Write short note on Carbocation. **05**
- (2) Write reaction, mechanism and application of Brook rearrangement. **05**
- (3) Write reaction, mechanism and application of Ugi and Ullmann coupling reaction. **05**
- (4) Write role of solvents in elimination and aliphatic nucleophilic substitution reaction. **05**
- (5) Explain  $E_1CB$  and  $SN_i$  reaction. **05**

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