

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

Enrolment No. \_\_\_\_\_

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

**PHARM.D.1<sup>st</sup> YEAR · FIRST INTERNAL EXAMINATION: 2018-19**

**Subject Name: PHARM. ORGANIC CHEMISTRY**  
**Subject Code: 08207104**  
**Time: 10:00-11:30**

**Date: 08/10/2018**  
**Total Marks: 30**

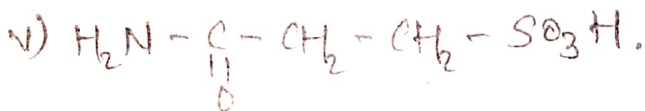
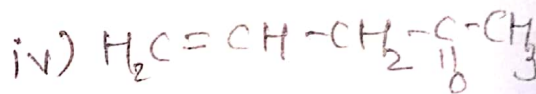
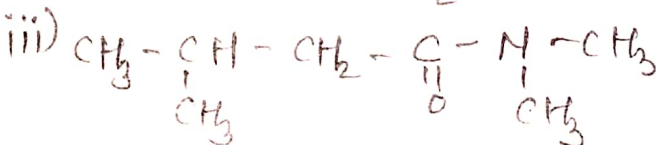
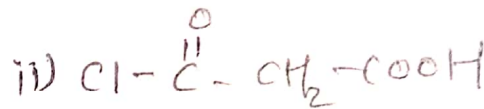
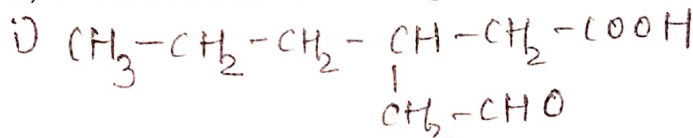
**Instructions:**

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

**I Long Essay (Answer Any One)**

**10 X 1 = 10M**

1. What are different types of nucleophilic substitution reaction? Give detail account on S<sub>N</sub>1 reaction. Write factors influencing on it.
2. A) Give structural formula of following compounds:  
i) Vinylchloride    ii) 2-ethoxyethanol    iii) 2,2,4-trimethylpentane  
iv) 1-methoxy-2-propanol    v) 2-methyl-2-butene  
B) Write IUPAC name for following structure:



**II Short Essay (Answer Any Two)**

**5 X 2 = 10M**

1. Explain : Enantiomer, Diastereomer, Meso Compound
2. Write reaction for Alicyclic compounds.
3. Explain role of solvent in nucleophilic substitution reaction

**III Short Answers (Answer All)**

**2 X 5 = 10M**

1. Explain optical active compound.
2. Explain Hydrogen bonding.
3. Why cyclopropane is less stable than cyclobutane?
4. Define acids and bases according to lewis theories with examples.
5. Explain polar molecules.

\*\*\*\*\* **BEST OF LUCK** \*\*\*\*\*