Roll No.

Y - 3210

M.Sc. (Second Semester) EXAMINATION, May/June 2021 INDUSTRIAL CHEMISTRY

Paper-202(A+B)

(Organic Chemistry-II)

Time: Three Hours

Maximum Marks: 85 Minimum Pass Marks: 29

Note: Attempt *all* questions.

Unit-I

1. Discuss conformational analysis of cyclohexane. Explain energies of various isomers of cyclohexane.

Unit-II

 Explain asymetric catalytic hydrogination of olefins, with respect to its mechanism and product control.

Unit-III

3. Define cyclo-addition reaction and explain the mechanism of cyclo-addition of 4n and 4n + 2 systems.

Unit-IV

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- 4. Explain the following:
 - (i) Oxidation of diols
 - (ii) Oxidation of sulphides

Unit-V

- 5. Discuss the following:
 - (i) Reduction of carbonyl compounds by hydride transfer reagents.
 - (ii) Reduction of azo compounds.

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