Roll No.:

Total No. of Questions : 5]

[Total No. of Printed Pages : 1

W-3271(A)

M.Sc. (Fourth Semester) Examination, (Second Chance) June-2020 CHEMISTRY

Paper - MCH-607

Physical Organic Chemistry

Time : Three Hours Maximum Marks : 85 Minimum Pass Marks : 29

Note : Attempt all questions.

Unit-I

Q.1. Explain advance techniques in PMO or FMO theory.

Unit-II

Q.2. Explain relationship between valence bond configuration mixing and resonance theory.

Unit-III

Q.3. Describe linear free energy relationship Hammett equation and substituent constant.

Unit-IV

- Q.4. Explain the following:
 - i) Steric strain and theirs influence on reactivity.
 - ii) Curtin Hammett principle.

Unit-V

- Q.5. Discuss the following properties of covalent bond.
 - i) Force constant.
 - ii) Molecular dipole moment.

W-3271(A)