

**W-3267(A)**

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

**CHEMISTRY**

**Paper - MCH-601**

**Organ Transition Metal Chemistry**

*Time : Three Hours*

*Maximum Marks : 85*

*Minimum Pass Marks : 29*

**Note :** Attempt **all** questions.

**Unit-I**

- Q.1. Discuss structural characteristics of Fischer and Schrock carbenes. Describe their role in organic synthesis.

**Unit-II**

- Q.2. Write short notes on transition metal dienyl complexes.

**Unit-III**

- Q.3. Write short notes on transition metal compounds with bonds to hydrogen.

**Unit-IV**

- Q.4. Write short notes on the following:
- Hydroformylation of alkenes.
  - Acetic acid synthesis.
  - Oxidation of alkenes.

**Unit-V**

- Q.5. Write short notes on:
- Acyclic alkenes.
  - $\pi$ -bonded cyclic alkene.

