

W-3267**M.Sc. (Fourth Semester) Examination, 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. Describe stability and decomposition pathways of transition metal alkyls. Discuss use of organocopper in organic synthesis. 17

Unit-II

- Q.2. Explain bonding, synthesis and reaction of transition metal diene complexes. 17

Unit-III

- Q.3. Discuss method of preparation of organolithium compounds. Describe their reactions in organic synthesis. 17

Unit-IV

- Q.4. Give a brief account of the following catalytic processes: 17
- Oxidative addition.
 - Insertion
 - Elimination

Unit-V

- Q.5. Discuss preparation, properties and reaction of metal carbonyls. 17

