

**W-3265****M.Sc. (Fourth Semester) Examination, June-2020****CHEMISTRY****Paper - MCH-505****Solid State Chemistry***Time : Three Hours**Maximum Marks : 85 (For Regular Students)**Minimum Pass Marks : 29***Note :** Attempt **all** questions.**Unit-I**

- Q.1. Discuss general mechanism of solid state reactions with suitable examples, and give experimental procedure. 17

**Unit-II**

- Q.2. Explain the following : 17
- Perfect and Imperfect crystal.
  - Schttky defect in crystal.

**Unit-III**

- Q.3. Discuss Band theory give Band structure for metals semiconductors and insulator. 17

**Unit-IV**

- Q.4. Write notes on electrical conductivity of polyacetylene and polypyrrole. 17

**Unit-V**

- Q.5. Discuss various theories of liquid crystal formation. 17

