

Roll No. ....

**Y – 3135(A)**  
**M.Sc. (Fourth Semester) (SPECIAL) EXAMINATION, August 2021**  
**(SECOND CHANCE)**  
**CHEMISTRY**  
**Paper–MCH-505**  
**(Solid State Chemistry)**

*Time : Three Hours*

*Maximum Marks : 85*

*Minimum Pass Marks : 29*

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

1. Discuss Kinetics of solid state reaction. Give Kirkendel effect. 17
2. Write notes on : 17
  - (i) Thermodynamics of frenkle formation.
  - (ii) Non stoichiometry and defects.
3. Write notes on : 17
  - (i) Doping semiconductors
  - (ii) P, *n* junction.
4. Explain types and applications of new superconductors. 17
5. Discuss important applications of liquid crystal display. 17

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