

Roll No. ....

**Y – 3139**

**M.Sc. (Chemistry) Fourth Semester EXAMINATION,**

**May/June-2021**

Paper – MCH 604

**HETEROCYCLIC CHEMISTRY**

*Time : Three Hours*

*Maximum Marks : 85*

*Minimum Pass Marks : 29*

**Note**—Attempt *all* questions.

**Unit-I**

1. Explain Hantzsch MCH-Widman System. 17

**Unit-II**

2. Write notes on— 17
- (i) Pyramidal Inversion.
  - (ii) Strain-bond angle.

**Unit-III**

3. Write synthesis and reactions of aziridines. 17

**Unit-IV**

4. Explain Nucleophilic and electrophilic catalysis. 17

**Unit-V**

5. Explain relationship between polar and electron transfer reaction SRN<sup>1</sup> mechanism. 17

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