

**W-3269****M.Sc. (Fourth Semester) Examination, June-2020****CHEMISTRY****Paper - MCH-604****Heterocyclic Chemistry***Time : Three Hours**Maximum Marks : 85**Minimum Pass Marks : 29***Note :** Attempt **all** questions.**Unit-I**

- Q.1. Discuss Systematic nomenclature of monocyclic and fused heterocycles by Hantzsch MCH widmann system. 17

**Unit-II**

- Q.2. Explain the following reactions of heterocyclic synthesis: 17  
i) Cyclization.  
ii) Cycloaddition.

**Unit-III**

- Q.3. Describe synthesis and reactions of the following compounds: 17  
i) Oxiranes.

**Unit-IV**

- Q.4. Discuss classification and applications of important mesoionic compounds. 17

**Unit-V**

- Q.5. Explain synthesis of following: 17  
i) Azepines.  
ii) Thiazines.

