

W-3269(A)

M.Sc. (Fourth Semester) Examination, (Second Chance) 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. Explain the following:

- i) Brief account of empirical and delocalization resonance energy.
- ii) Criteria of Aromaticity.

Unit-II

Q.2. Describe hydrogen bonding and intermolecular nucleophilic electrophilic interactions.

Unit-III

Q.3. Discuss chemistry Benzothiophene.

Unit-IV

Q.4. Give synthesis and applications of following:

- i) Pyrone and Pyrillium salt.
- ii) Benzopyrillium salts.

Unit-V

Q.5. Write synthesis and applications of following:

- i) Heterocyclic compounds of Boron.
- ii) Heterocyclic compounds of Antimony.

