

M.Sc. DEGREE EXAMINATION, ODD SEMESTER 2020
II Year and III Semester
Genetics, Plant Breeding and Evolution

Max.marks :25

Answer any **FIVE** questions ($5 \times 5 = 25$) Marks

1. Describe the procedure for gene mapping on chromosomes.
2. Discuss sex determination in plants.
3. What is gene regulation? Explain it with the help of *Lac-Operon*.
4. What is mutation? Enumerate the types of mutations and mutagens.
5. Give the comparison between the pure-line selection and mass selection.
6. Write about breeding of plants for disease resistance.
7. Define: Evolution? Explain the origin of life.