

Roll No.

Y – 3148

M.Sc. (Fourth Semester) EXAMINATION, May/June-2021

BOTANY

Paper – 401

GENETICS PLANT BREEDING AND EVOLUTION

Time : Three Hours

Maximum Marks : 85

Minimum Pass Marks : 29

Note—Attempt *all* questions.

Unit-I

1. Describe in details about Mendel's law of inheritance with suitable examples. 17

Unit-II

2. Discuss the role of polyploidy in evolution of crop plants giving suitable examples. 17

Unit-III

3. Describe the process of genetic recombination in bacteria with suitable diagram. 17

Unit-IV

4. What are induced mutations ? Discuss the role of mutation in Plant breeding. 17

Unit-V

5. Give an account of the breeding work done in India for the improvement of rice. 17

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