

M-6643

M.Sc. (IVth Semester) Examination, 2020

BOTANY

(Molecular Interactions of Plants with
Symbionts, Pathogens and Pests)

Time Allowed : Three Hours

Maximum Marks : 70

Minimum Pass Marks : 28

Note : Attempt one question from each unit. All questions carry equal marks.

Unit - I

Q. 1. Describe positive interaction of biotic factor. 14

OR

Write notes on :

- (i) Biotic factors
- (ii) Negative interaction

M-6643

P.T.O.

(2)

Unit - II

Q. 2. Describe fungal pathogenesis in plants. 14

OR

Describe plant-insect interaction mechanism.

Unit - III

Q. 3. Describe mycorrhizal interaction mechanism in plants. 14

OR

Write an essay on symbiosis.

Unit - IV

Q. 4. Describe recent advances in parasitic interaction between parasites and plants. 14

OR

Write notes on :

- (i) Competition
- (ii) Predation

M-6643

(3)

Unit - V

Q. 5. Describe the role of pathogens and pests in plant
resistance management. **14**

Or

Write notes on :

- (i) Gene transformation
- (ii) Genetic engineering

