

FACULTY OF SCIENCE

B.Sc. V-Semester (CBCS) Examination, November / December 2019

Subject: Bio-Technology

Molecular Plant Breeding

Paper – V (SEC-3)

Time: 1½ Hour

Max.Marks: 40

Note: Answer all questions. Each question carries equal marks.

PART – A (2x5 = 10 Marks)

- 1 a) Discuss the role of SSRs and ISSRs in plant breeding.
OR
b) What are SNPs? How they differ from SSRs?
- 2 a) What are the factors important for selection of markers for MAS?
OR
b) What is Marker Assisted backcrossing? What are its uses?

PART – B (2x15 = 30 Marks)

[Essay Answer Type]

Note: Answer all questions from the following.

- 3 a) Discuss in detail about different breeding methods for self and cross pollinated crops.
OR
b) What are molecular maps? Describe different methods for construction of molecular maps.
- 4 a) What is marker assisted selection? Describe the use of MAS in the improvement of hybrid varieties.
OR
b) What is Gene pyramiding? Describe in detail about marker assisted gene pyramiding.