

B Sc III Year V Semester-Question Bank**Subject: Molecular Plant Breeding (SEC)****Group: Mb Bt C****Unit-1: Molecular markers in Plant Breeding****Essay questions**

1. Write in detail about the different breeding methods for self and cross pollinated crops.
2. Describe about the development of molecular markers.
3. Give an account on construction of molecular maps.
4. What are Molecular markers? Explain the use of molecular markers in plant breeding.

Short questions:

1. Mass and Pureline selection
2. RFLP, RAPD, SNPs, SSRs, ISSRs
3. Mapping population for QTLs
4. Limitations of Conventional breeding

Unit-2: Marker Assisted Selection (MAS) for Plant Breeding**Essay questions**

1. Explain Marker assisted backcrossing in detail.
2. Describe marker assisted gene pyramiding.
3. Write about improved varieties/Germplasm using MAS.
4. Give an account on Recurrent selection.

Short questions:

1. Marker assisted hybrid breeding
2. Recurrent selection
3. MABC
4. Marker trait association