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Your answers should be specific to the questions asked. Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- Write a note on micro-propagation and its application.
- 2. Describe molecular maps-RFLP, RAPD and plant chromosome analysis.
- 3. Explain in detail the methods of Polyploidy and Chemodemes

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Give the uses of radio isotopes and molecular markers in localization of transferred genes
- 5. Explain the uses of PCR in gene mapping
- 6. Write a detailed note on the in-vitro methods of conservation of germplasm.
- 7. Give the structural and molecular organization of cell and explain the regulation of gene expression.
- 8. Explain the methods of immobilization techniques of enzymes in detail.
- 9. Explain the following.
 - a) Electroporation
 - b) Auto radiography

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10. Micro Injection

11. Purification of enzymes

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