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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)

- What is Biotransformation? How it is effected? Give its applications. 1.
- 2. Discuss the role of PCR in gene mapping and give an account of RFLP and RAPD.
- 3. Name the various methods of crop quality improvement. Give a detailed account of any two of them.

SHORT ESSAY (Answer any FIVE)

- 4. What is Cell cycle and Cell signaling? Give the role of each in plant genetics.
- 5. Give an account o In-situ conservation of germ plasm.
- 6. Detail out the role of Vectors in Gene Transfer.
- 7. Write a note on Autoradiography and Electrophoresis.
- 8. What are Transgenic plants? Give its applications with suitable examples.
- What are the methods available for enzyme isolation and purification? Give a detailed account 9. of them.

SHORT NOTES

- Hairy root culture and its applications. 10. www.firstRamer.com
- 11. Synthetic seeds.

 $5 \times 10 = 50 \text{ Marks}$

2 X 5 = 10 Marks

2 X 20 = 40 Marks

