

## CODE: 9214

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

## LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- 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)

5 X 10 = 50 Marks

- 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.
- 9. What are the methods available for enzyme isolation and purification? Give a detailed account of them.

WWW.FirstRanker.com SHORT NOTES 2 X 5 = 10 Marks

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

