

CODE: **196423**
NOVEMBER 2020

TIME: 2 Hrs
MAX. MARKS: 50

PART A

(10 x 2=20)

Answer any **TEN** questions.

1. Cosmid vector
2. Gene gun
3. Taq Polymerase
4. Oleosin Technology
5. Salt tolerance
6. Edible Vaccine
7. Bioremediation
8. IPR
9. Totipotency
10. Synthetic seeds
11. Quantum dots.
12. Green Nano Biotechnology.

PART B

(2 x 5=10)

Answer any **TWO** questions.

13. Describe the Structure of pBR322 plasmid
14. What is *Agrobacterium tumefaciens* mediated gene transfer.
15. Write notes on fatty acid metabolism
16. Explain the DNA Vaccines.
17. Briefly describe Monoclonal Antibodies.
18. Write short notes on plant tissue culture.
19. Describe the nanofabrication.
20. Write notes on nanoparticles targeted drug discovery.

PART C

(2 x 10=20)

Answer any **TWO** questions.

21. Explain the Genomic and cDNA Libraries.
22. What is Bt toxins? Explain its application in insect resistance.
23. Describe the DNA fingerprinting and its applications.
24. Discuss the Culture methods of meristem cells.
25. Elaborate the applications of nanocrystals and carbon nanotubes.