

School of Agriculture**Master of Science in Agronomy
Semester End Examination - Jun 2024****Duration : 180 Minutes
Max Marks : 100****Sem II - A1PB204B - Biotechnology for Crop Improvement**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

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| 1) | Name the place where Centre for Agricultural Bioinformatics is located. | K1(2) |
| 2) | Explain the terms SBCC and DLC. | K2(4) |
| 3) | Illustrate the meaning of the terms: Biparental mapping and association mapping. | K2(6) |
| 4) | Construct the steps in somatic hybridization. | K3(9) |
| 5) | Construct the procedure of T-DNA transfer by Agrobacterium. | K3(9) |
| 6) | Interpret the meaning of sterilization and mention its types along with brief description. | K5(10) |
| 7) | Analyse how bioinformatics can help in advancement of agriculture | K4(12) |
| 8) | Conclude the scope and importance of biotechnology. | K5(15) |
| 9) | Conclude the importance of nanofertilizers over bulky fertilizers | K5(15) |
| 10) | Elaborate the laboratory setup of a tissue culture facility. | K6(18) |