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School of Agriculture
Master of Science in Agronomy
Mid Term Examination - May 2024

Duration : 90 Minutes
Max Marks : 50

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

- 1) Classify the different branches of biotechnology. K2 (2)
- 2) Match the Following: K1 (3)
 - A) Karl Ereky i) Developed MS media
 - B) Murashige and Skoog ii) Production of first haploid embryos
 - C) Guha and Maheshwari iii) Coined the term biotechnology.
- 3) Explain the terms transgenesis and cisgenesis. K2 (4)
- 4) Illustrate the meaning of haploid and its applications in agriculture. K2 (6)
- 5) Identify the critical requirements of tissue culture. K3 (6)
- 6) Solve the following question: Illustrate the importance of subculturing in callus culture. K3 (9)
- 7) Simplify the terms callus culture and suspension culture. K4 (8)
- 8) Distinguish between cosmid and phasmid. K4 (12)

OR

Examine the different databases and search tools which are used for bioinformatics research in agriculture K4 (12)