

Reg No:.....
Name :.....

K25FY2240

Second Semester FYUGP Botany Examination
APRIL 2025 (2024 Admission onwards)
KU2MDCBOT104 (AGROBIODIVERSITY)
(DATE OF EXAM: 26-4-2025)

Time : 90 min

Maximum Marks : 50

Part A (Answer any 6 questions. Each carries 2 marks)

1. What are the main components of agrobiodiversity? 2
2. What is ecosystem diversity, and why is it important for maintaining ecological balance? 2
3. Write any two major contributions of Cheruvayal Raman to the Agrobiodiversity. 2
4. What is the economic importance of agrobiodiversity in agriculture and rural development? 2
5. What is genetic diversity, and why is it crucial for the survival and adaptability of species? 2
6. Define ex-situ conservation and give an example. 2
7. What are monocultures, and how do they impact biodiversity? 2
8. What is the significance of the work done by Praseed Kumar Thayyil in Wayanad district? 2

Part B (Answer any 4 questions. Each carries 6 marks)

9. Explain the domestication of animals in early human societies. What were the main factors that led to the domestication of specific species for agriculture? 6
10. Discuss the role of agrobiodiversity in ensuring food security. 6
11. Describe the tools and technologies used for measuring agrobiodiversity. How do these tools help in monitoring and conserving agrobiodiversity in farming ecosystems? 6
12. Describe the role of agro-ecological methods in enhancing biodiversity and ecosystem services on farms. 6
13. How does climate change affect agricultural practices and food security? Provide examples of its impact. 6

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14. Explain the concept of "Genomic Saviours" and discuss the contributions of Shaji, the tuber saver, in preserving plant genetic resources. 6

Part C (Answer any 1 question(s). Each carries 14 marks)

15. Analyze the concept of 'Genomic Saviours' and the role of grassroots conservation efforts in maintaining crop diversity. 14
16. Discuss the provisions of the Protection of Plant Varieties and Farmers' Rights Act (PPVFR) and its impact on the conservation of plant genetic resources. How does PPVFR support farmers' rights and encourage biodiversity conservation? 14