K26FY1111 Pages: 2 Reg No:.....
Name:.....

Second Semester FYUGP Degree (Reg/Sup) Examination
April 2026
KU2MDCBOT104 - AGROBIODIVERSITY

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Define agrobiodiversity and cite an example.
2. What are the main components of agrobiodiversity?
3. Explain the role of John Joseph from Kozhikode district in conserving genetic resources.
4. What is the contribution of Shaji, the tuber saver, in the field of genomics?
5. How does genetic diversity in crops contribute to agricultural resilience and food security?
6. How do on-farm conservation practices complement ex-situ conservation efforts in maintaining agricultural biodiversity?
7. Discuss the effect of agricultural practices on soil degradation.
8. What is the relationship between polyculture and pest management?

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Define genetic diversity and explain its significance in agricultural ecosystems.
10. Explain the various methods used to measure agrobiodiversity. Discuss the importance of species inventory, genetic analysis, and landscape surveys in assessing the diversity of agricultural systems.
11. Describe the role of agro-ecological methods in enhancing biodiversity and ecosystem services on farms.
12. Evaluate the role of modern agricultural practices in the acceleration of climate change. Discuss both positive and negative aspects.
13. Analyze the significance of the Protection of Plant Varieties and Farmers' Rights Act (PPVFRA) in promoting biodiversity conservation and supporting farmers' rights.

14. Explain the concept of agroforestry and discuss its benefits for sustainable farming systems.

Section C

Answer any 1 questions. Each carry 14 marks.

15. How does the variety of plant and animal species contribute to better health outcomes, reduce the risks of malnutrition, and enhance the sustainability of food systems?

16. Analyze the concept of 'Genomic Saviours' and the role of grassroots conservation efforts in maintaining crop diversity.

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