



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

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University Examinations 2024/2025

FOURTH YEAR, FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN AGRICULTURE, BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION AND BACHELOR OF SCIENCE IN EDUCATION SCIENCE

AAB 3425: AGRICULTURAL LAWS, STANDARDS & CERTIFICATIONS

DATE: JANUARY 2025

TIME: 2 HOURS

INSTRUCTIONS:

1. Answer Question **ONE**, and any other **TWO**

QUESTION ONE (30 MARKS)

- a) A group of farmers has started producing organic vegetables, but they are struggling to market their products and differentiate them from conventional produce. How can certifications and labeling play a role in improving market positioning for organic products (5 marks)
- b) Define sustainability in the context of agriculture and explain why it is critical for the future of the Industry (5 marks)
- c) Identify five key provisions related to land use and land management in Kenya's 2010 Constitution (5 marks)
- d) Outline five objectives of agriculture Act in Kenyan context (5 marks)
- e) Explain the various land tenure systems in Kenya and their Implications for land use and management (10 marks)

QUESTION TWO (20 MARKS)

- a) Ethical sourcing and fair trade Initiatives aim to ensure that farmers receive fair compensation for their products. What are the main principles of fair trade in agriculture, and how do they benefit smallholder farmers? (10 Marks)



- b) Discuss the role of the Hazard Analysis and Critical Control Points (HACCP) system in ensuring food safety in agricultural production and processing. (10 marks)

QUESTION THREE (20 MARKS)

The use of genetically modified organisms (GMOs) In agriculture has sparked significant ethical debates.

- a) What are the ethical concerns associated with the use of GMOs in agriculture? (10 marks)
- b) Discuss the potential benefits and risks of using biotechnology in agriculture, particularly for smallholder farmers in developing countries. (10 marks)

QUESTION FOUR (20 MARKS)

The environmental Impact of agriculture is a significant ethical issue, particularly in relation to deforestation, water use, and pollution.

- a) What are the key environmental ethical challenges facing agriculture today? (10 marks)
- b) What role do consumers and regulatory bodies play in encouraging environmentally ethical practices in agriculture? (10 marks)

