

LAIKIPIA



UNIVERSITY

UNIVERSITY EXAMINATIONS

1ST SEMESTER 2025/2026 ACADEMIC YEAR

FOURTH YEAR EXAMINATIONS FOR BACHELOR OF SCIENCE IN AGRICULTURAL EDUCATION AND EXTENSION

AGED 416: AGROFORESTRY

STREAM: R

TIME: 2 HRS

DAY: FRIDAY (14.30-16.30)

DATE: 30/01/2026

THIS QUESTION PAPER CONSISTS OF THREE (3 PAGES)

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INSTRUCTION TO CANDIDATES:

Question one and any other TWO

QUESTION ONE (30 MARKS)

1. (a) Explain the following terms in relation to Agroforestry
 - (i) Multipurpose Trees Species (MPTs) **(4 marks)**
 - (ii) Alley cropping **(4 marks)**
 - (iii) Sericulture **(4 marks)**
- (b) Briefly, discuss the contribution of agroforestry to food security. **(6 marks)**
- (c) Discuss the contribution of agroforestry to climate change. **(6 marks)**
- (d) Highlights three attributes of agroforestry systems. **(6 marks)**

QUESTION TWO (20 MARKS)

- 2.(a) Discuss five management techniques which are applied to agroforestry trees and shrubs in high potential areas. **(10 marks)**
- (b) Discuss the role of gender mainstreaming in the promotion of agroforestry practices in rural areas. **(10 marks)**

QUESTION THREE (20 MARKS)

- 3.(a) Discuss five desired characteristics of an “ideal” agroforestry tree species in promoting soil fertility. **(10 marks)**
- (b) Discuss the criteria used in classifying agroforestry systems in the tropics. **(10 marks)**

QUESTION FOUR (20 MARKS)

- Q4. (a) Using examples, critique agroforestry as a land use system in developing countries. **(12 marks)**
- (b) Discuss the contribution of agroforestry in the promotion of business enterprises in Kenya. **(8 marks)**

QUESTION FIVE (20 MARKS)

- Q5.(a) Expound the indices of wood fuel scarcity in Kenya. **(5 marks)**
- (b) Discuss major hindrance that lead to low adoption of agroforestry practices in developing countries. **(5 marks)**

- (c) Distinguish between riparian buffer strip and contour buffer strip. **(5 Marks)**
- (d) Express the merits and demerits of the animal component of an Agroforestry system. **(5 Marks)**