



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya.

Tel: +254 (0)799529958, +254 (0)799529959, +254 (0)712524293

Website: www.must.ac.ke Email: info@must.ac.ke

University Examinations 2024/2025

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

AAA 3202: ANNUAL AND PERENNIAL CROPS PRODUCTION

DATE: DECEMBER 2024

TIME: 2 HOURS

INSTRUCTIONS:

1. Answer Question ONE, and any other TWO

QUESTION ONE (30 MARKS)

- a) Outline the general considerations during selection of varieties for the following crops
 - i. Oil crops (4 marks)
 - ii. Pulses (4 marks)
- b) Discuss the research needs of the following crops in Kenya
 - i. Cereals (5 marks)
 - ii. Tea *Camelia spp* (5 marks)
- c) Discuss the challenges facing the following crops in Kenya:
 - i. Sugar cane (4 marks)
 - ii. Cotton (4 marks)
 - iii. Pyrethrum (4 marks)

QUESTION TWO (20 MARKS)

- a) Discuss innovative ways of increasing yields of maize (*Zea mays L.*) in Kenya (10 marks)



- b) Outline strategies to increase production and utilization of green grams (*Vigna radiata* (L.) in Kenya (10 marks)

QUESTION THREE (20 MARKS)

Describe the production of coffee (*Coffea spp.*) under the following aspects:

- i. Planting (5 marks)
- ii. Variety selection (5 marks)
- iii. Soil moisture management (5 marks)
- iv. Nutrient management (5 marks)

QUESTION FOUR (20 MARKS)

Discuss strategies for increasing production of root crops in Kenya (20 marks)

