



MERU UNIVERSITY OF SCIENCE AND TECHNOLOGY

P.O. Box 972-60200 – Meru-Kenya

Tel: +254(0) 799 529 958, +254(0) 799 529 959, + 254 (0) 712 524 293,

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

University Examinations 2024/2025

SECOND YEAR FIRST SEMESTER EXAMINATION FOR THE DIPLOMA IN AGRICULTURE

AAD 2401: VEGETABLE CROPS

DATE: DECEMBER 2024

TIME: 1½ HOURS

INSTRUCTIONS: Answer question *one* and any other *two* questions

QUESTION ONE (30 MARKS)

- a) i. Define vegetable (1 mark)
ii. State four classification of vegetable (4mark)
- b) Giving examples in each case, differentiate between primary tillage and secondary tillage (4marks)
- c) State two importance of soil testing in vegetable production (2marks)
- d) As an agronomist in Kenya, you have been asked by the farmers to state the advantages of using seeds over vegetative materials when propagating watermelon (4marks)
- e) List four factors considered when determining nursery location (4marks)
- f) State the maturity indicators of tomatoes (2marks)
- g) State six post-harvest management practices in carrot (6marks)
- h) Highlight three challenges of material environment in vegetable farming (3marks)

QUESTION TWO (15 MARKS)

Discuss tomato production in the following subheadings

- i. Agroecological requirements (3marks)

- ii. Varieties (2marks)
- iii. Land preparation (2marks)
- iv. Crop establishment (2marks)
- v. Conducting agricultural management practices (2marks)
- vi. Harvesting and post- harvest handling (2mark)
- vii. Pest and diseases (2marks)

QUESTION THREE (15 MARKS)

- a) Vegetables are classified according to genera and species giving examples in each case, name five botanical classification (5marks)
- b) Discuss types of vegetable production (10marks)

QUESTION FOUR (15 MARKS)

- a) Giving examples in each case, discuss vegetable based on the life cycle (6 marks)
- b) Discuss the types of cropping system (9marks)