



MURANG'A UNIVERSITY OF TECHNOLOGY
SCHOOL OF AGRICULTURE AND ENVIRONMENTAL
STUDIES

DEPARTMENT OF AGRICULTURE

TVET EXAMINATION

2023/2024 ACADEMIC YEAR

FIRST YEAR SECOND SEMESTER EXAMINATION FOR DIPLOMA IN

HO/CU/NM/CR/04/6/B: POTTED SEEDLINGS PRODUCTION

DURATION: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

1. Answer question one and any other three questions.
2. Mobile phones are not allowed in the examination room.
3. You are not allowed to write on this examination question paper.

SECTION A: ANSWER ALL QUESTIONS IN THIS SECTION

QUESTION ONE (40 MARKS)

- a) Define the following. (5 marks)
 - i. Potted seedlings
 - ii. Food safety
 - iii. Risk
 - iv. Hazard
 - v. Risk assessment
- b) Highlight two 2 legislation and 2 standards involved in potted seedling production. (4 marks)
- c) Explain the importance of observing food safety measures in potted seedling production. (4 marks)
- d) Name two sources of planting material for potted seedling. (1 mark)
- e) Outline different types of cutting that can be used for producing potted seedling. (4 marks)
- f) Explain 5 factors affecting rooting of cutting. (10 marks)
- g) Explain 5 methods of breaking seed dormancy. (10 marks)
- h) Differentiate seedlings sorting and seedlings grading. (2 marks)

SECTION B – (60 MARKS) ANSWER ALL QUESTIONS

QUESTION TWO (20 MARKS)

- a. Define seedling root pruning and give 3 methods use in root pruning. (4 marks)
- b. Give any 4-nursery structure used in potted seedlings production and 2 maintenance practises for each structure. (10 marks)
- c. Highlight 3 benefits of keeping records in potted seedlings production. (3 marks)
- d. Give any six qualities of good potted seedlings. (3 marks)

QUESTION THREE (20 MARKS)

- a) Explain four ways of waste management in horticultural nurseries. (8 marks)
- b) Give six importance of farm production schedule. (6 marks)
- c) Explain any three key elements taken into consideration when interpreting a soil analysis report. (6 marks)

QUESTION FOUR (20 MARKS)

- a) Define seed dressing. (2 marks)
- b) Give three benefits of seed dressing. (3 marks)
- c) Explain HACCP principles giving examples. (15 marks)

