

081206T4HPN

Horticulture Producer Level 6

HO/OS/HP/CR/07/6/B

Produce Horticultural Nuts

July/Aug. 2023



**TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL
(TVET CDACC)**

WRITTEN ASSESSMENT

Time: 3 Hours

INSTRUCTIONS TO CANDIDATE

1. This paper has three sections **A** and **B**. Attempt questions in each section as per instructions given in the section.
2. You are provided with a separate answer booklet.
3. Marks for each question are indicated in the brackets.
4. Do not write on the question paper

This paper consists of three (3) printed pages.

Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing

SECTION A: (40 MARKS)

Answer ALL questions in this section.

1. A farmer desires to set up a commercial horticultural farm in Kenya. State FOUR factors that would influence the choice of the nut species to grow. (4 marks)
2. Mr. Komu wanted to harvest his Macadamia nuts for export. Describe the harvesting practices that would minimize the post-harvest loss. (4 marks)
3. State TWO common pests and TWO diseases in Ground nut production. (4 marks)
4. You are a quality control manager at a Cashew nut farm. Identify FIVE maturity indices you would consider during harvesting. (5 marks)
5. As a marketing officer in Kirika farm, advise the management on the market channels available for marketing Macadamia nuts in Kenya. (4 marks)
6. What are THREE post-harvest processing activities undertaken in nuts production. (3 marks)
7. State FOUR ecological requirements a farmer need to consider before setting up a Coconut farm in Kenya. (4 marks)
8. As a sales person for Muko Macadamia (Kenya), outline FIVE uses of Macadamia nuts. (5 marks)
9. As a horticultural officer in Muvuliro area, what reasons would you give to farmers on the need to test their soils before establishing a Ground nut farm. (4 marks)
10. State THREE Good Agricultural Practices (GAP) on the use of pesticides. (3 marks)

SECTION B: (60 MARKS)

*Answer only **THREE** questions in this section*

11. a. Mr. Lix Cashew nut farm is organically managed. Explain SEVEN cultural management practices adopted in this farm. (14 marks)
- b. Describe steps involved in harvesting and processing of Groundnuts. (6 marks)
12. a. Describe Rosette disease in Groundnuts with respect to;
- i. Cause
 - ii. Symptoms
 - iii. Control (10 marks)
- b. Describe methods of controlling aphids in nut production. (10 marks)
13. Grafting is an important propagation practice in nut production.
- a. Describe tongue grafting procedure in Macadamia seedlings. (14 marks)
 - b. Outline the advantages of grafting in nut production. (6 marks)
14. a. Soil sampling is an important activity before and during growth of Walnuts. Describe the procedure you would follow in sampling soil using traverse method? (10 marks)
- b. What are the benefits of nut cultivation in details. (10 marks)