

081205T4HPN

Horticulture Production Level 5

HO/OS/HP/CR/07/5/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**, **B** and **C**. Answer 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 SEVEN (7) 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 question in this section. Each question is 1 mark

1. The required seed rate for Cashew nut is
 - A. 6.5 kg/ha
 - B. 4 kg/ha
 - C. 10 kg/ha
 - D. 8 kg/ha
2. Identify the required pruning height for macadamia tree from the following
 - A. 0.8 - 1 meters
 - B. 1 -2 meters
 - C. 3 – 4 meters
 - D. 5 – 6 meters
3. Cashew nut ‘apple’ is rich in
 - A. Vitamin A
 - B. Vitamin C
 - C. Vitamin B
 - D. Vitamin K
4. Rosette disease symptoms on a farm is the typical deficiency symptoms of
 - A. Copper
 - B. Boron
 - C. Iron
 - D. Zinc
5. The ideal temperature range for macadamia nuts is;
 - A. 0 – 20⁰C
 - B. 19 – 28⁰C
 - C. 16 – 25⁰C
 - D. 25 – 32⁰C
6. For s successfully grafting the scion and stock shall be of
 - A. Same genus
 - B. Same species
 - C. Similar class
 - D. Same family
7. The dried endosperm of Coconut that is rich in oil is referred to as
 - A. Copra
 - B. Coir
 - C. Fibre
 - D. Corn

8. Which of the following is a planting material for Coconut.
- A. Setts
 - B. Seedlings
 - C. Seeds
 - D. Tuber
9. Choose one Agricultural importance of Ground nuts from the choices below.
- A. Acts as a green manure
 - B. Nitrogen fixation
 - C. Softens the soil
 - D. Increases calcium in the soil
10. The following are reasons for gapping in Groundnut production except?
- A. To increase the plant population
 - B. For uniformity of growth
 - C. To maintain an economical plant population
 - D. To control weeds
11. The following are some of the management practices carried out on a cashew nut plant except?
- A. Weeding
 - B. Top working
 - C. Selective thinning
 - D. Harvesting
12. _____ is the practice of breaking seed dormancy in horticultural nut.
- A. Inoculation
 - B. Dressing
 - C. Soaking
 - D. Fumigation
13. Below are post-harvest handling practices for nuts. Which one is not?
- A. Sorting
 - B. Freezing
 - C. De husking
 - D. Grading

14. What is the name given to collection of horticultural nuts?
- A. Thinning
 - B. Picking
 - C. Siting
 - D. Gilling
15. Identify the correct dimensions of planting holes for planting Macadamia nuts.
- A. 60cm x 60cm x 60cm
 - B. 45cm x 45cm x 45cm
 - C. 1m x 1m x 1m
 - D. 50cm x 50cm x 50cm
16. Identify the importance of primary cultivation from the answers below.
- A. To break the soil into small particles
 - B. To increase soil microorganisms
 - C. To make the land uniform
 - D. To harvest out the previous crop
17. The following diseases affect Macadamia nuts except?
- A. Macadamia trunk canker
 - B. Macadamia root stunting disease
 - C. Anthracnose
 - D. Amillaria root rot
18. Coconut cake in livestock feed is a source of _____
- A. Minerals
 - B. Carbohydrates
 - C. Iron
 - D. Starch
19. Which of the following is not a characteristic of horticultural nuts?
- A. Are fruits
 - B. Are seeded
 - C. Most are berry fruits
 - D. They are indehiscent

20. What is the benefits of mulching in Cashew nut after planting?

- A. To cover the soil
- B. To introduce microorganisms in the soil
- C. To conserve moisture
- D. To control weeds

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SECTION B: (40 MARKS)

Answer ALL question in this section

21. State FOUR Symptoms of Rosette disease in Groundnuts. (4 marks)
22. A farmer desires to set up a commercial horticultural farm in Kenya. State FOUR Factors considered when selecting planting materials for Ground nuts. (4 marks)
23. Highlight FOUR factors you would consider when selecting Cashew nut farm site. (4 marks)
24. Mrs. Koru wanted to graft Macadamia seedling for planting. State FOUR factors to consider when selecting rootstock. (4 marks)
25. Outline FOUR ecological requirements a farmer need to consider before setting up a Macadamia farm in Kenya. (4 marks)
26. As a sales person in a nut farming enterprise, outline FOUR uses of Cashew nuts. (4 marks)
27. As a horticultural officer state FOUR predisposing factors of aflatoxin fungal attack in Ground nut farm. (4 marks)
28. Explain the post-harvest handling of Coconut. (4 marks)
29. State FOUR advantages of pruning in Macadamia nuts. (4 marks)
30. As a processing manager highlight on the FOUR quality parameter you would check on nuts before harvesting. (4 marks)

SECTION C: (40 Marks)

Answer any TWO question in this section.

31. A European investor has landed in the country and wants to start a Coconut farm for commercial production. As a consultant describe Coconut production with respect to:
- i. Uses; (6 marks)
 - ii. Ecological requirements; (4 marks)
 - iii. Propagation ; (7 marks)
 - iv. Field management practices. (3 marks)
32. You have been invited by famers who have been incurring losses from their horticultural crops caused by insect pests. Advise them how they can control the insect pests culturally. (20 marks)
33. a. Describe steps involved in Cashew nut harvesting. (6 marks)
- b. Grafting is an important propagation practice in nut production. Describe Whip grafting procedure in Macadamia seedlings. (14 marks)