

81206T4HPN

Horticulture producer Level 6

HO/OS/HP/CR/04/6/B

Produce Vine Fruits

July/Aug. 2023



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

WRITTEN ASSESSMENT

Time: 3 Hours

INSTRUCTIONS TO CANDIDATE

- i. This paper has two sections **A** and **B**. Attempt questions in each section as per instructions given in the section.
- ii. You are provided with a separate answer booklet provided.
- iii. Marks for each question are indicated in the brackets.
- iv. Do not write on the question paper

This paper consists of THREE (3) printed pages

SECTION A: (40 marks)

Answer ALL questions in this section

1. Name TWO benefits of trellising in production of vine fruits. (2 marks)
2. You are a farmer who specializes in growing Melons on your family-owned farm. One day, you receive an invitation to participate in a prestigious agricultural conference where experts from around the world will discuss best practices in crop cultivation and harvesting techniques. Explain why Melons should be harvested at the optimal stage of maturity. (4 marks)
3. You work as a viticulturist at a renowned winery, responsible for managing the vineyard and ensuring the production of top-quality grapes. As you prepare for the upcoming harvest season, you realize the importance of accurately determining the optimal maturity of grapes for harvest. Outline FOUR maturity indices for Grapes. (4 marks)
4. Highlight TWO varieties of melons (4 marks)
5. Describe THREE ecological requirements of Passion fruits. (6 marks)
6. Highlight FOUR advantages of using transplanting as a method of planting melons. (4 marks)
7. Outline THREE plant characteristics of Kiwi fruit plant. (3 marks)
8. You are an agricultural consultant specializing in Date fruit production. A group of date farmers has approached you seeking advice on how to improve their overall productivity and quality of Date fruits. Highlight FIVE management practices that the Date farmers should implement to optimize their Date fruit production. (5 marks)
9. You are a farmer observing your Pumpkin plants and suspect the presence of powdery mildew disease. Identify four symptoms associated with powdery mildew in Pumpkins. (4 marks)
10. You are a food safety expert advising a farmer on the proper storage of Pumpkins. Outline FOUR ways of prolonging the Pumpkin freshness. (4 marks)

SECTION B: 60 (marks)

Answer any THREE questions in this section

11. a) Describe TWO physiological disorders found in Water melons with respect to their description, causes and control measures. (8 marks)
- b) You are a food safety inspector responsible for assessing the post-harvest handling practices of melons in a production facility. Explain SIX post-harvest handling practices of Melons. (12 marks)
12. You are a horticulture consultant tasked with providing guidance on preparing an orchard for Passion fruit cultivation. Describe the steps involved in preparing an orchard for Passion fruit cultivation. (20 marks)
13. a) Explain FOUR disorders associated with Kiwi fruit and control their measures. (8 marks)
- b) Discuss SIX maturity indices used for Date fruits. (12 marks)
14. a) You are a vineyard manager overseeing the grape harvest in a winery. Explain the following grape harvesting methods; (8 marks)
- i. Mechanical harvesting
 - ii. Night harvesting
- b) You are a market analyst studying the importance of Passion fruits in Kenya. Discuss the importance of Passion fruits cultivation. (12 marks)