

081106T4AEX

AGRICULTURAL EXTENSION LEVEL 6**AGR/OS/EXT/CR/06/6/A****Produce Horticultural Crops****November/December 2025**

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TVET CURRICULUM DEVELOPMENT, ASSESSMENT AND CERTIFICATION COUNCIL
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WRITTEN ASSESSMENT**Time: 3 HOURS**

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INSTRUCTIONS TO CANDIDATE

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1. The paper consists of **TWO** sections: **A** and **B**.
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2. Answer **ALL** questions in section A and **ANY THREE** in section B.
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3. Marks for each question are indicated in the brackets.
4. Candidates are provided with a separate answer booklet
5. **DO NOT** write on this question paper.
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This paper consists of FIVE (5) printed pages

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

SECTION A (40 MARKS)***Attempt All Questions in this Section.***

1. Bananas are commonly propagated using suckers, which is one of the vegetative methods of propagation. State THREE advantages of using suckers for banana propagation. (3 Marks)
2. Drip irrigation is commonly used in greenhouses to deliver water directly to plant root zones through a system of pipes and emitters. State THREE advantages of using drip irrigation in greenhouse horticultural crop production. (3 Marks)
3. Spacing and depth are key when planting horticultural crops. State FOUR factors to consider when determining spacing during planting. (4 Marks)
4. Tertiary tillage helps prepare the soil for planting by refining the seedbed and improving soil structure. List FOUR common tools used for tertiary tillage. (4 Marks)
5. Healthy planting materials lead to vigorous crop growth and high yield. Mention FOUR qualities of good planting materials in horticulture. (4 Marks)
6. Seedlings require good care during the transplanting process. Identify precautions to take when transplanting seedlings. (3 Marks)
7. Avocado must prioritize food safety throughout the production process to meet market standards and protect consumer health. State FOUR practices that producers should implement to ensure safe avocado production. (4 Marks)
8. Suppose you are the marketing manager for a Farm. Advise the management by identifying FOUR market channels that can be used to market onions in Kenya. (4 Marks)
9. The method of harvesting greatly affects both the quality and market value of horticultural crops. List THREE factors that determine the right time to harvest horticultural crops. (3 Marks)

10. Post-harvest handling affects shelf-life and quality. State FOUR post-harvest practices used

to reduce losses of horticultural produce.

(4 Marks)

11. Processing adds value and extends shelf life of horticultural products. State FOUR methods

used to process crop products.

(4 Marks)

SECTION B (60 MARKS)***Attempt THREE Questions in this Section***

12.

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- a) With the growing emphasis on sustainable agriculture, smallholder farmers are increasingly turning to organic manure for horticultural crop production. Discuss FIVE reasons why farmers may prefer organic manure over synthetic (inorganic) fertilizers.

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(10 Marks)

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- b) A farmer in Naivasha plans to start a horticultural crop enterprise on a one-acre piece of land. To achieve healthy growth and high yields, E factors to consider when planting horticultural crops for optimal establishment.

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(10 Marks)

13.

- a) Effective crop management leads to higher productivity and better crop quality. Discuss FIVE cultural practices used in managing horticultural crops.

(10 Marks)

- b) A farmer growing horticultural crops observes rapid weed growth in the field. To ensure good crop establishment and high yields, the farmer must control weeds promptly. Discuss

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FIVE reasons why timely weed control is important in horticultural crop production.

(10 Marks)

14.

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- a) A farmer is preparing to harvest tomatoes for the market. To avoid losses and ensure high-quality produce, the farmer must harvest at the right stage. List and explain FIVE indicators that tomatoes are ready for harvesting.

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(10 Marks)

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- b) A farmer plans to propagate orange trees and is considering using budding instead of grafting. Explain FIVE reasons why budding may be preferred over grafting for orange propagation.

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(10 Marks)

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15.

- a) A German investor is interested in starting a herbs and spices farming venture in Kenya.

As a horticulturist, E important use so f herbs and spices that would help guide
the investor's decision.

(10 Marks)

- b) A farmer plans to establish a horticultural crop and aims to achieve good germination, uniform growth, and high yields. Explain FIVE operations carried out in preparing a seedbed for horticultural crops.

(10 Marks)

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