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SUSTAINABLE AGRICULTURE FOR RURAL DEVELOPMENT LEVEL 5

AGR/OS/SARD/C.R/03/5 Printed By: Technical And Vocational College **Demonstrate**

Knowledge of Organic Farming November/December 2025

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

WRITTEN ASSESSMENT

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Time: 3 HOURS

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INSTRUCTIONS TO CANDIDATE

1. This paper consists of **TWO** sections: **A** and **B**.

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2. ~~Ans~~ **Answers** ~~1~~ ¹⁵ **questions** in section **A** and **ANY THREE** (3) questions in section **B**.

3. Marks for each question are indicated in the **bracket**

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4. Candidates are provided with a separate answer booklet

5. Do not write on the question paper.

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This paper consists of FOUR (4) 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 the questions in this section.

1. During a training, cooperative farmers ask about the foundation of organic farming practices. State FOUR principles of organic farming. (4 Marks)
2. Farmers at a field day want to learn practical ways of managing pests organically. List FOUR pest control methods commonly used in organic farming. (4 Marks)
3. A student notices frequent disease outbreaks in an organic farm and is asked to identify possible causes. Outline FOUR factors that contribute to the spread of plant diseases in organic systems. (4 Marks)
4. An extension officer is advising farmers on soil improvement practices suitable for organic systems. Name FOUR organic farming technologies used to improve soil fertility. (4 Marks)
5. A family with limited land wants to maximize food production through innovative gardening designs. Outline FOUR methods of intensive kitchen gardening. (4 Marks)
6. During an organic certification session, inspectors stress the importance of adhering to standards. Give FOUR organic standards that farmers must comply with to be certified. (4 Marks)
7. During a class discussion on frequent pest and disease outbreaks in organic farming systems, trainees are encouraged to critically analyze existing causes based on real-farm experiences. As part of the discussion, State FOUR factors that are most likely to contribute to pest and disease outbreaks in organic farming systems. (4 Marks)
8. During inspection, a certifier asks the manager to present proper documentation. List FOUR types of documentation. (4 Marks)
9. A quality assurance officer is assessing the packaging process at an organic farm to ensure it aligns with certification and market requirements. The officer must verify that all packaging elements meet quality standards. State FOUR elements the quality assurance officer should check when evaluating the packaging of organic produce. (4 Marks)
10. Farmers are debating the benefits of compost compared to chemical fertilizers. Give FOUR advantages of using compost in organic farming. (4 Marks)

SECTION B (60 MARKS)

Attempt Any THREE Questions in This Section

11.

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a. During a field visit you are asked to advise smallholder farmers on non-chemical approaches to pest management. Explain FIVE cultural practices used in organic farming to reduce pest populations. (10 Marks)

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b. Organic farming is increasingly being promoted worldwide due to its environmental and economic advantages over conventional farming methods. Discuss FIVE economic benefits of organic farming compared to conventional farming. (10 Marks)

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12.

a. A commercial farmer plans to convert part of the farm to organic livestock production. Describe FIVE standards required for organic livestock management. (10 Marks)

b. Organic certification is important for ensuring the credibility of organic

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products and providing farmers access to premium markets. However, farmers in Kenya face several obstacles in obtaining and maintaining certification. Explain FIVE challenges facing organic certification in Kenya. (10 Marks)

13.

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a. A farm enterprise is integrating ICT tools to enhance efficiency in operations. Describe FOUR strategies through which ICT can improve farm productivity.

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(8 Marks)

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b. A farmer is facing an aphid infestation on enterprises and wants to manage the pest problem organically. Explain SIX strategies you would recommend to the farmer to control the aphids in a sustainable manner.

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(12 Marks)

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14.

a. A farmers' training module on organic farming is being finalized, and one of

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main topics is record keeping. Trainers want to ensure farmers understand the types of records necessary for compliance, traceability, and

effective farm management. Discuss FIVE benefits of record keeping in organic farming. (10 Marks)

b. Marketing is a key aspect of organic farming because it determines how well farmers can sell their produce and earns income. Since organic products target a specialized segment, farmers must adopt effective approaches to reach consumers and remain competitive. Describe FIVE strategies for marketing organic produce effectively. (10 Marks)

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