

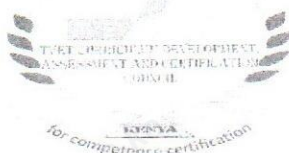
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AGRICULTURAL EXTENSION LEVEL 6

AGR/OS/EXT/CC/01/6/A

Apply Agricultural Extension and Rural Sociology

March/April 2025



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

WRITTEN ASSESSMENT

Time: 3 HOURS

INSTRUCTIONS TO CANDIDATE

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

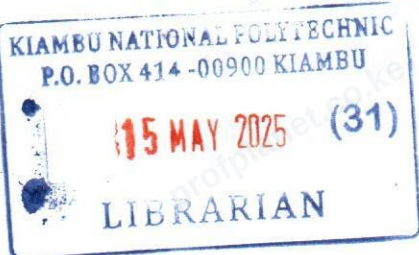
This paper consists of FIVE (5) printed pages

**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 the questions in this section.

1. In the execution of their duties, extension officers are required to understand the cultures and way of life of the farming communities they are working with. Define the terms below that relate to the cultures of farming communities. (3 Marks)
 - i. Traditions
 - ii. Beliefs
 - iii. Norms
2. Koech is a newly posted extension officer in Nandi County. Farmers in that area have been adversely affected by the maize streak virus. As Koech starts his extension work, his superiors and peers have recommended that he deploys farm visits as an extension method. Outline FOUR reasons why he should conduct farm visits. (4 Marks)
3. While working with communities in the rural areas as an extension officer, it is important to involve local leaders in extension activities. State TWO benefits of engaging local leaders before conducting extension activities. (2 Marks)
4. Technology transfer is an integral part of the extension process involving transfer and spread of technical innovation and know how to farming population. Enumerate FOUR methods an agricultural extension officer can use to disseminate new innovation to farmers. (4 Marks)
5. A paradigm can be defined as a distinct set of concepts or thought pattern, including theories, research methods and standards of what constitute legitimate contribution to the agricultural field. State FOUR paradigms of agricultural extension. (4 Marks)
6. Musembi is an extension officer in Imenti Central, he found two farmers within his work catchment area quarrelling over farmer A's goats being destructive to farmer B's crops. Identify THREE methods of conflict resolution that Musembi can deploy to solve such kind of conflicts among farmers. (3 Marks)



7. An Agricultural Occurrence Book is a record-keeping tool used in agricultural extension and farm management to systematically document events, observations, and activities related to agricultural practices and developments. It tracks daily or periodic occurrences, helping stakeholders monitor progress, address issues, and make informed decisions. Specify THREE events that can be recorded in an occurrence book. (3 Marks)
8. Demonstrations are an effective method that an extension officer can deploy for technology transfer. Differentiate between method demonstration and results demonstration as extension methodologies. (2 Marks)
9. It is important for farmers to understand the government procurement because it is directly linked to their ability to access markets, meet standards, negotiate fair terms, and maximize profitability. All procurement management processes in the farm consists of three P's. State the THREE P's. (3 Marks)
10. When training farmers, an extension officer needs to create situations in which information can pass freely between the officer and the farming community. Outline FOUR essential elements in an effective learning situation. (4 Marks)
11. Farm visits are effective method of conducting extension activities. However, it can have some disadvantages as an extension method. Determine THREE challenges associated with individual farm visits. (3 Marks)
12. Policies on agricultural matters are formulated as per government objectives to provide guidelines and oversight in the agricultural sector in Kenya. Outline TWO processes involved in agricultural policy design. (2 Marks)
13. A balance sheet is a financial record available in a farm that shows the financial position of the farming enterprise at a given time. Highlight the THREE components of a balance sheet. (3 Marks)



SECTION B (60 MARKS)*Attempt Any other THREE Questions in This Section*

14. Farmers at Mirangine ward in Nyandarua County were introduced to a new variety of Irish potatoes for adoption. The table below gives the number of adopters within a period of 12 months.

Month	Number of Adopters for new potato variety	Rate of Adoption	Cumulative adoption
1	1		
2	4		
3	6		
4	9		
5	12		
6	16		
7	18		
8	24		
9	28		
10	30		
11	24		
12	16		

- Calculate the rate of adoption and fill the rate of adoption column. (6 Marks)
- Fill the cumulative adoption column. (6 Marks)
- Plot the adoption curve for the new potato variety. (8 Marks)

15. Extension officers are trained to work, with communities and farmers of diverse backgrounds and cultures. Understanding the different groups of farmers and their culture is crucial in agricultural extension because it influences how farmers perceive, accept, and implement new ideas and practices.

- Describe TWO types of culture found within our farming communities. (4 Marks)
- Farming communities may adapt or change their culture in response to various factors that impact their livelihoods, practices, and social structures. Elaborate THREE factors that may influence farming communities to change their culture.

(6 Marks)

- c. Outline FIVE functions of culture to farming communities. (10 Marks)

16. Agricultural extension is aimed at transferring new agricultural technology and persuade farmers to adopt and use these technologies for improved productivity. However, farmers tend to adopt new technologies differently.

- a. Using a diagram, illustrate the FIVE adopter categories for agricultural innovation, showing their respective percentages. (5 Marks)
- b. Discuss the FIVE adopter categories of innovation. (10 Marks)
- c. Outline the FIVE stages farmers normally go through as they learn and adopt the new practices or technologies. (5 Marks)

17. Agricultural extension involves a lot information dissemination and communication to farmers, input providers, authorities and community members. For meaningful and positive communication to occur, an extension officers needs to be responsible in both speaker and listener roles so that they share a clear and accurate understanding of the messages

- a. Using an illustration, show the complete process of communication that will guide an extension officer to ensure effective communication. (5 Marks)
- b. Citing examples, discuss THREE forms of communication. (9 Marks)
- c. Explain THREE levels of communication that can occur during agricultural extension work. (6 Marks)

