KENYAPLEX EXAMS

KENYA CERTIFICATE OF BASIC EDUCATION

SENIOR SCHOOL ASSESSMENT

TERM 2 ENDTERM ASSESSMENTS 2026

GRADE 10 – APPLIED AGRICULTURE 007 JULY

Time: 2 Hours

LEARNER'S DETAILS

Name: _____. **School:** _____.

Assessment Number: _____. **Date:** _____.

School Code: _____. **Signature:** _____.

INSTRUCTIONS TO CANDIDATES

1. Write your name in the spaces provided above.
2. Write the name of your school and your stream in the spaces provided.
3. Write your admission number and the date of the assessment in the spaces provided.
4. This paper consists of two sections: A and B.
5. Answer all questions in section A and section B.
6. Answer the questions in English.
7. All answers MUST be written in the spaces provided in the paper.
8. Do NOT remove any page from this question paper.

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SECTION	SECTION A	SECTION B	% SCORE	EE1	EE2	ME1	ME2	AE1	AE2	BE1	BE2
SCORE RANGE	30 MARKS	50 MARKS		90-100	75-89	58-74	41-57	31-40	21-30	11-20	1-10
POINTS				8 POINTS	7 POINTS	6 POINTS	5 POINTS	4 POINTS	3 POINTS	2 POINTS	1 POINT
LEARNER'S TOTAL SCORE											

SECTION A (30 MARKS)

Answer ALL questions in this section.

1. **(a)** Match the following ways of accessing land in Kenya with their correct descriptions. *(4 Marks)*

Method of Access	**Description**
i. Leasing	A. Receiving land from a parent or relative after they pass away.
ii. Inheritance	B. Paying a specific fee to use land for a set period.
iii. Buying	C. Being given land for free by the government or a well-wisher.
iv. Donation	D. Acquiring permanent ownership through a financial transaction.

(b) State two natural factors that determine the productivity of land in Mwea, Kirinyaga County. *(2 Marks)*

i. _____
ii. _____

2. Define the following terms as used in Agricultural Technologies: *(3 Marks)*

a) **Value Addition:**

_____
_____

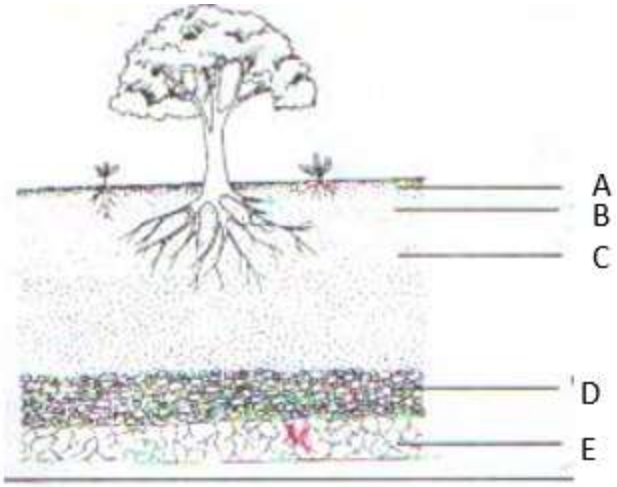
b) **Fallow Land:**

_____
_____

c) **Apiary:**

_____
_____

3. Study the diagram below of a soil profile observed by learners at Alliance Senior School during a field trip and answer the questions that follow.



(a) Name the horizons labeled: A, B, C, D and E. (1 ½ mks)

A: _____ D: _____

B: _____ E: _____

C: _____

(b) State two characteristics of topsoil. (2mks)

i. _____
ii. _____

4. Distinguish between the following soil properties: *(2 Marks)*

Soil Texture and **Soil Structure**:

_____
_____

_____

_____

5. State whether the following statements regarding bee keeping are **True or False**. *(4 Marks)*

a) An apiary should be sited near a busy road to allow bees to travel easily. [_____]

b) Smoking is a method used to calm bees during honey harvesting. [_____]

c) Water should be provided near the hive for the bees. [_____]

d) A catcher box is used to transport honey to the market. [_____]

6. Grade 10 learners used some tools to restrain the animals in the farm. Mention three tools used for livestock restraining and safety at Nakuru Senior School farm. *(3 Marks)*

i. _____

ii. _____

iii. _____

7. List three factors of production required by a Grade 10 learner to establish a poultry enterprise. *(3 Marks)*

i. _____

ii. _____

iii. _____

8. Learners used the following tools while working in the school farm.

Q

R

S

T

Identify the tools labelled Q,R,S and T*(4 Marks)*

Q: _____ R:_____

S:_____ T:_____

9. Outline two maintenance practices carried out on a jembe or a panga. *(2 Marks)*

i. _____

ii. _____

SECTION B (50 MARKS)

(Answer all questions in this section)

10. Learners at Limuru Girls' School were preparing a seedbed for kales. They started by clearing the bush, then performed primary cultivation, followed by secondary cultivation.

a) Explain the importance of secondary cultivation in seedbed preparation. *(4 Marks)*

i. _____
ii. _____

b) Identify two conservation tillage practices the learners could use to conserve soil moisture. *(2 Marks)*

i. _____
ii. _____

c) Compare zero tillage and minimum tillage as used in crop production. *(4 Marks)*

Zero tillage	Minimum tillage

11. Study the images of the cattle below and answer the questions.

a) Identify the breeds above: *(2 Marks)*

M. _____ N. _____

b) Distinguish between the two breeds based on their primary use. *(2 Marks)*

M	N

c) A farmer in Kitale wants to start a commercial milk business. Which of the two breeds would you recommend? Give a reason. *(2 Marks)*

i. _____
ii. _____

12. During an excursion to a farm in Narok, four learners (Kamau, Moraa, Fatuma, and Mutua) were describing a specific weed they found in a wheat field.

i. *Kamau:* "This weed has a very short life cycle, completing it in one season."
ii. *Moraa:* "I noticed its leaves are very broad compared to the wheat."
iii. *Fatuma:* "It competes heavily with the wheat for nutrients and light."
iv. *Mutua:* "It can be controlled easily by uprooting it before it produces seeds."

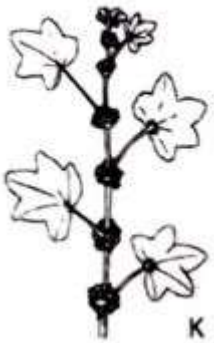
a) Based on Kamau's description, classify the weed by its life cycle. *(1 Mark)*

_____

b) Based on Moraa's description, classify the weed by its morphology. *(1 Mark)*

_____

c) Timothy a Grade 10 learner came across the weeds shown below



Identify the weed labelled:

H_____ (1 mark)

J _____ (1 mark)

K_____ (1 mark)

d) Explain two economic importances of weeds to a farming household. *(2 Marks)*

i. _____
ii. _____

e) Describe three cultural methods of weed control. *(3 Marks)*

i. _____

ii. _____

iii. _____

13. A group of Grade 10 learners from Kenya Senior School visited a local resource person to discuss how to market their tomatoes. The resource person described several activities.

Activity 1: Sorting tomatoes into "Large", "Medium", and "Small".

Activity 2: Putting them into crates and labeling them with the school logo.

Activity 3: Calculating the cost of the pick-up truck and the market entrance fee.

a) Identify the specific marketing preparation process described in Activity 1. *(1 Mark)*

_____

b) Mention two benefits of **branding** as mentioned in Activity 2. *(2 Marks)*

i. _____

ii. _____

c) Evaluate the expenses mentioned in Activity 3. Name two types of marketing expenses. *(2 Marks)*

i. _____

ii. _____

d) The learners decided to turn some tomatoes into tomato paste. Suggest two benefits of this value addition. *(2 Marks)*

i. _____

ii. _____

e) State three digital platforms the learners can use to market their produce in Kenya. *(3 Marks)*

i. _____.
ii. _____.
iii. _____.

14. A farmer in Mombasa noticed that his cows were dull, had rough coats, and had a drop in milk production.

a) Identify three signs of ill health from the description above. *(3 Marks)*

i. _____
ii. _____
iii. _____

b) Explain three general preventative measures the farmer should take to maintain animal health. *(6 Marks)*

i. _____.
ii. _____.
iii. _____.

c) Why is it important to wear Personal Protective Equipment (PPE) when handling livestock? *(1 Mark)*

_____

_____

15. A learner wants to start a bee-keeping project but has no money.

a) Propose four ways the learner can acquire capital to establish the enterprise. *(4 Marks)*

i. _____.
ii. _____.
iii. _____.
iv. _____.

b) State one factor to consider when selecting an agricultural enterprise. *(2 Marks)*

_____

_____

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