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SET 2

GRADE 10 END OF YEAR EXAMS

KENYA CERTIFICATE OF BASIC EDUCATION

SENIOR SCHOOL ASSESSMENT

GRADE 10 – APPLIED AGRICULTURE

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.

FOR OFFICIAL USE ONLY

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 learner from **Eldoret** is planning to start maize farming but does not own land.

a) Define the term **agricultural land**. (1 mark)

_____

_____

b) State **two ways** the learner can access land. (2 marks)

i. _____

ii. _____

c) Outline **two natural factors** affecting land productivity. (2 marks)

i. _____

ii. _____

2. During a practical lesson, learners tested soil and observed poor drainage and low fertility.

a) Identify the **soil property** being tested. (1 mark)

_____

b) State **two methods** of improving this soil condition. (2 marks)

i. _____

ii. _____

c) Explain why soil properties are important in crop production. (2 marks)

i. _____

ii. _____

3. Match the tools in Column A with their uses in Column B: (3 marks)

Column A	**Column B**
(i) Secateurs	(a) Digging holes
(ii) Jembe	(b) Pruning
(iii) Panga	(c) Cutting bushes

4. [DIAGRAM: A watering can, wheelbarrow, and rake]







a) Identify **any two tools** shown. (2 marks)

i. _____

ii. _____

b) State **one maintenance practice** for each identified tool. (2 marks)

i. _____

ii. _____

5. A farmer prepares land through ploughing, harrowing, and leveling.

a) Name the **stage of land preparation** described. (1 mark)

_____

b) Arrange the operations in the correct order. (2 marks)

_____

_____

c) State one importance of proper land preparation. (1 mark)

_____

_____

6. State whether the statements are TRUE or FALSE. If false, correct them.

a) Weeds are always harmful to farmers._____ (1 mark)

b) Zero tillage reduces soil erosion._____ (1 mark)

c) Branding is not part of marketing agricultural produce. _____(1 mark)

7. Four learners from **Nairobi School** made the following statements:

Amina: "Sorting improves quality."

Brian: "Packaging protects produce."

Carol: "Branding helps identification."

David: "Weighing determines price."

a) Identify the agricultural activity they are describing. (1 mark)

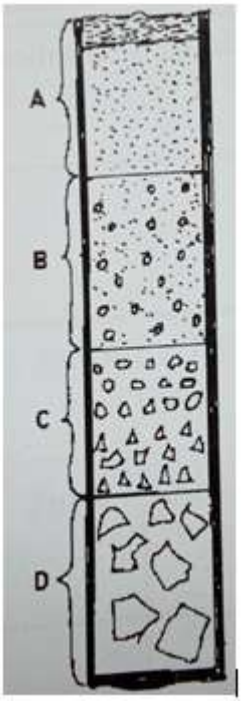
_____

b) List **two benefits** of this activity. (2 marks)

i. _____

ii. _____

8. Study the diagram below and use it to answer the questions that follow



a) Identify the diagram (1 mark)

_____

b) Name the parts A, B, C and D in the diagram. (2 marks)

i. _____
ii. _____

c) State the usual colour of each of the parts labelled A and B

A: _____.

B: _____.

d) A soil sample weighs 25 g before being oven dried. The soil weighs 15 after being oven dried at 105^0c. Calculate the

i. Moisture content of the soil

ii. Percentage moisture content

e) Mention four ways of conserving soil water

i. _____

ii. _____

iii. _____

iv. _____

9. A farmer keeps animals for milk and meat production.

a) Distinguish between **dairy and beef breeds**. (2 marks)

Dairy breed	**Beef breed**

b) Give one example of each. (2 marks)

Dairy breed	**Beef breed**

10. A trader transporting tomatoes from **Makueni to Nairobi** incurred several costs.

a) Define **marketing expenses**. (1 mark)

_____

_____

b) Mention **three examples** of such expenses. (3 marks)

i. _____

ii. _____

iii. _____

SECTION B (50 MARKS)

(Answer ALL questions)

11. A Grade 10 learner plans to start a poultry farming enterprise.

a) Define **factors of production**. (2 marks)

_____

_____

_____

b) Explain the role of the following:

i) Land (2 marks)

_____

_____

ii) Labour (2 marks)

_____

_____

c) Describe **three ways** the learner can acquire capital. (6 marks)

i. _____

ii. _____

iii. _____

d) Explain **three factors** to consider when selecting this enterprise. (6 marks)

i. _____

ii. _____

iii. _____

12. A group of learners processed mangoes into juice for sale.

a) Define **value addition**. (2 marks)

_____

_____

b) Describe the **process of making mango juice**. (6 marks)

i. _____

ii. _____

iii. _____

c) Explain **three benefits** of value addition. (6 marks)

i. _____

ii. _____

iii. _____

d) Identify **two ethical issues** in food processing. (2 marks)

i. _____

ii. _____

13. Learners at **Mang'u High School** observed their goats showing signs of illness.

a) List **four signs** of ill health in livestock. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

b) Explain **four control measures** of livestock diseases. (8 marks)

i. _____

ii. _____

iii. _____

iv. _____

c) State **two benefits** of keeping animals healthy. (2 marks)

i. _____

ii. _____

14. (Illustration-Based Question – Apiary Management)

[DIAGRAM: Beehive, smoker, protectiv `nthing]



X



Y



Z

a) Identify **two items** in the diagram. (2 marks)
X: _____

y: _____

Z: _____

b) Explain **three factors** to consider when siting an apiary. (6 marks)

i. _____

ii. _____

iii. _____

c) Describe the **process of harvesting honey**. (6 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

vi. _____

15. Learners visited a market and observed produce being graded, packaged, and labeled.

a) Describe **four ways** of preparing produce for marketing. (8 marks)

i. _____

ii. _____

iii. _____

iv. _____

b) Explain **four market outlets** for agricultural produce. (8 marks)

i. _____

ii. _____

iii. _____

iv. _____

c) Evaluate **four expenses** incurred in marketing agricultural produce. (8 marks)

i. _____

ii. _____

iii. _____

iv. _____