



Candidate's Name		Assessment Number	
School Name		School Code	
Candidate's Signature		Date	

### AGRICULTURE THEORY

KJSEA

905/1

PAPER 1

#### INSTRUCTIONS TO CANDIDATES

1. Write your name and assessment number in the spaces provided above.
2. Write the name and code of your school in the spaces provided above.
3. Sign and write the date of the assessment in the spaces provided above.
4. This paper consists of two sections: A and B.
5. Section A comprises Multiple Choice Questions numbered 1 to 30.
6. Section B comprises short, structured questions number 31 to 38.
7. Answer ALL the questions in section A on the separate ANSWER SHEET provided.
8. Answer ALL the questions in section B in the spaces provided in this QUESTION PAPER.
9. Do NOT remove any page from this question paper.
10. Answer ALL the questions in English.

For official use only  
SECTION B

Question	31	32	33	34	35	36	37	38				
Maximum score	8	1	5	4	5	3	1	3				
Candidate's Score per question.												

#### SECTION A

Read all the instructions carefully

1. You have been given this question paper and a separate answer sheet. This section consists of 30 multiple choice questions.
2. Answer ALL questions on the ANSWER SHEET provided, NOT on the question paper.
3. Do all the necessary rough work on the question paper.

#### HOW TO USE THE ANSWER SHEET

4. Use an ordinary HB pencil.
5. Confirm that the answer sheet you have been provided with has the following:  
YOUR ASSESSMENT NUMBER  
YOUR NAME  
NAME OF YOUR SCHOOL  
NAME OF THE SUBJECT
6. Keep the answer sheet clean and dry. DO NOT fold it.
7. For each of the questions 1 - 30, four options are given. The options are lettered A, B, C and D. In each case, only ONE of the four options is correct. Choose the correct option.
8. On the answer sheet, the correct answer is to be shown by drawing a DARK LINE inside the box in which the letter you have chosen is written.

Example:

the Question Paper:

6. Three of the following are methods of disinfecting clothing and household articles. Which one is not?

A. Boiling  
C. Disinfecting

B. Drying  
D. Salting

16. [A]

[B]

[C]

[D]

The correct answer is B.

On the answer sheet, in the set of boxes given for number 16, draw a DARK LINE inside the box with the letter B printed in it as marked below.

9. Your dark line MUST be within the box. DO NOT make any marks outside the boxes.
10. For each question, ONLY ONE box is to be marked.

This paper consists of 8 printed pages

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

**Section A (30 Marks)**

**Answer ALL the questions provided.**

1. Grade 7 learners in Junior school constructed the structures shown below for conserving surface run-off.



Name the structure.

- A. Water retention pits
  - B. Water retention ditches
  - C. Earth basin
  - D. Water pond
2. While preparing a balanced diet for the guests, Leone's mother considered three of the following factors **except**
- A. age
  - B. health status
  - C. gender
  - D. serving time
3. Martin is storing hay to feed his animals during the dry season. Which of the following methods will **best** preserve the nutritional quality of the hay?
- A. Storing hay in a wet, damp environment.
  - B. Storing hay in a dry, well-ventilated area.
  - C. Keeping hay exposed to direct sunlight.
  - D. Allowing hay to be exposed to rain.

TW-005

4. Poor disposal of plastic wastes, is one way of causing soil pollution. Which one of the following, shows the effects of plastic wastes on the soil
- A. They conserve water in the soil for the crops to grow well.
  - B. They kill pests that destroy our crops.
  - C. They prevent water and air from reaching the soil, disrupting the process of soil aeration and water absorption.
  - D. They prevent sunlight from reaching the crops affecting the process of photosynthesis.
5. Three of the following are qualities of a well made seam. Which is **not**?
- A. Should be firmly stitched.
  - B. Should have a shiny surface.
  - C. Should be accurately stitched on the fitting line.
  - D. Should be neatly stitched.
6. Grade nine learners, are planning their organic garden. Which of the following is a benefit of crop rotation in organic gardening?
- A. It prevents soil depletion and helps control pests.
  - B. It reduces the need for irrigation.
  - C. It increases the need for chemical pesticides.
  - D. It eliminates the need for any fertilizers.
7. Maimuna's mother uses the container shown in the picture below to preserve animal product.



Identify the method used to preserve the animal product using the container shown above.

- A. Sun drying
- B. Fermentation
- C. Boiling
- D. Smoking



8. Rehema is a grade 9 learner. She wants to make three pancakes. Identify the flour mixture she would use.

- A. Stiff batter
- B. Coating batter
- C. Thin batter
- D. Dough

9. Name the crop management practice where the farmer replaces the seedlings that refused to grow in the farm.

- A. Gapping
- B. Hardening
- C. Thinning
- D. Pruning

10. James wants to ensure his integrated farming system remains sustainable. Which practice should he adopt to make his farm more sustainable?

- A. Only growing cash crops for export
- B. Focusing on monoculture farming
- C. Utilizing crop residues and animal waste as organic fertilizers
- D. Ignoring pest management strategies

11. Three of the following are methods of cleaning the kitchen surface except one. Which one is it?

- A. Mopping
- B. Scratching
- C. Scrubbing
- D. Sweeping

12. Michael and Miriam are twin siblings. They designed and constructed an innovative waterer for their small domestic animals at home. Which of the following is a challenge likely to be observed when using the waterer?

- A. They keep water for long thus conserving water.
- B. Poor usage by the animals.
- C. They ensure proper utilization of water by the animals.
- D. They reduce water contamination.

13. Mr. Ouma, is a poultry farmer. He sorts and grades his eggs before going to sell in the market. Which one of the following is **not** a reason for sorting and grading eggs?

- A. To consider what the consumers want
- B. To fetch high market price.
- C. To prevent eggs from breaking.
- D. To separate and group eggs according to the size, weight and colour.

14. Grade 9 learners went for a field excursion. They came across the method of harvesting and storing water shown in the picture.



How is the structure in the picture important to a farmer?

- A. It provides water for farming during the time of shortage.
- B. It provides contaminated water to the crops
- C. The water provided is only used for watering crops and not given to the domestic animals.
- D. It provides water that cannot be used for fish farming.

15. Mr Yasmin observed that in his poultry fold, some chicks were missing. This happened without a trace. He also noted that eggs collected reduced significantly despite having healthy hen. He observed the structure and found signs of big holes and noticed a few broken eggshells. Identify the most suspect predator.

- A. A mongoose
- B. A hare
- C. A squirrel
- D. A rat

16. Grade 7 learners processed a certain crop produce for value addition. The steps below shows the activities that were followed.
- Peeled and cut into small pieces of desired shape.*
  - Washed the selected parts.*
  - Dipped the pieces into hot oil.*
  - Cooked until golden brown.*
  - Removed from the boiling oil and allowed it to cool.*
  - Served or packed them for sale.*
- Name the crop produce that they applied value addition as mentioned in the steps above.
- Irish potatoes
  - Pumpkin fruit
  - Groundnuts
  - Vegetables

17. Awino is curious about the best way to harvest hay. Which practice will help to preserve hay's quality?
- Cutting hay late in the afternoon when it's still wet
  - Cutting hay early in the morning before the dew has evaporated.
  - Cutting hay when it is still young and green
  - Cutting hay when it is fully mature but before it starts to flower.

18. Some learners wanted to access information on caring and treating sick animals using their digital devices. Which of the following agricultural support services did they use?
- Input services
  - Weather forecast services
  - Market information services
  - Veterinary services

19. After harvesting and processing raw honey, grade 9 learners were asked to pack in plastic or glass jars. Which one of following is a reason why they packed in plastic or glass jars?
- To make it attractive for the consumers to buy at high market price.
  - To add more flavour to the honey, making it more delicious and nutritious.
  - They preserve the honey's natural flavors, texture, and nutritional qualities by protecting it from air, moisture, and contaminants.
  - To ensure the honey stays forever without spoiling.

20. The picture below shows one of the methods of soil conservation Mrs. Korinda practices on her farm.



Identify the method of soil conservation shown.

- Stone lines
  - Trash lines
  - Grassed waterways
  - Soil bunds
21. Victor wants to help his mother to process the poultry carcass. Which of the following shows the **correct** order of activities?
- Beheading, Defeathering, Removal of offals, Cleaning.
  - Defeathering, Beheading, Cleaning, Removal of offals.
  - Removal of offals, Beheading, Defeathering, Cleaning.
  - Beheading, Cleaning, Removal of offals, Defeathering.

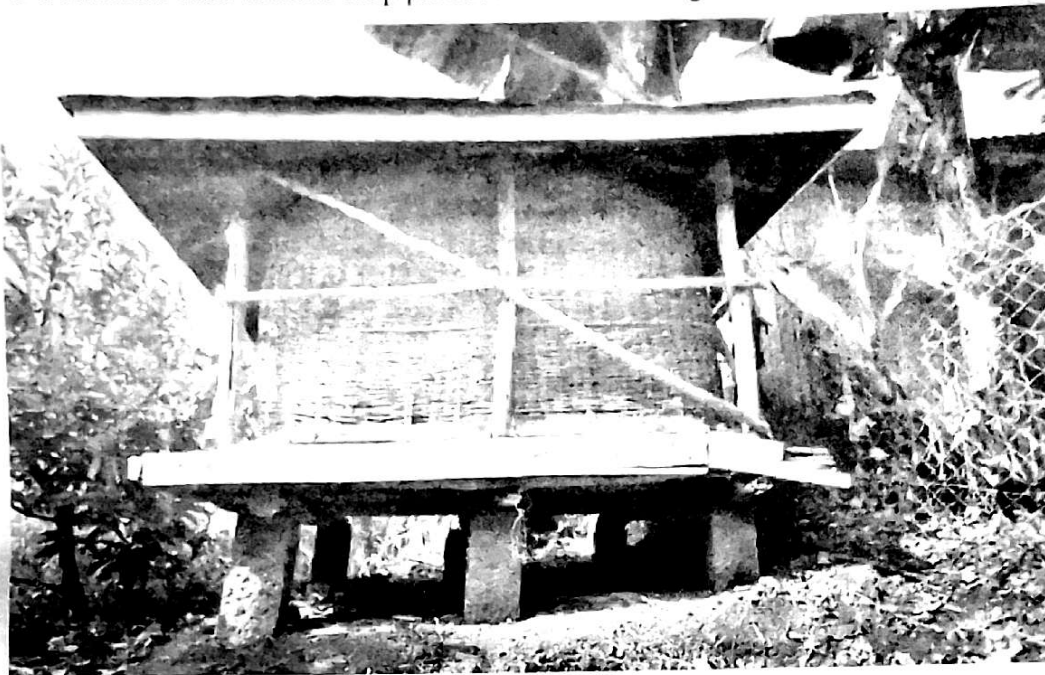


22. My grandfather is storing dried grains such as wheat in his granary. What should he do to prevent pests from damaging the stored grains?
- Store the grains in airtight containers in a dry, cool area
  - Leave the grains exposed to the air in a warm place
  - Store the grains in large open sacks on the floor
  - Store the grains in direct sunlight to dry out completely
23. Which one of the following is a cleaning agent?
- Soap
  - Oil
  - Grease
  - Methylated spirit.
24. Sophia is trying to reduce food wastage. What should she do with leftover fruit that is about to spoil?
- Throw it away immediately.
  - Blend the fruit into a smoothie and store it in the fridge.
  - Leave it on the counter for a few days.
  - Put the fruit in the refrigerator without washing it.
25. Which of the following is NOT a common purpose of adding flour to a mixture when baking?
- To provide structure to the baked good.
  - To help in the raising process of dough.
  - To add sweetness to the mixture.
  - To give the mixture a smooth texture.
26. Lucy wants to make sure she doesn't lose too many nutrients while cooking her spinach. What should she avoid doing?
- Using a small amount of water to cook.
  - Cook the spinach by blanching.
  - Boiling the spinach for a long time.
  - Cooking spinach for a short time.
27. Mr. Omollo noticed that, the base of her vegetable seedlings had been damaged by a certain pest. Which one of the following methods **cannot** be used to control that pest?
- Handpicking
  - Uprooting heavily affected vegetable crops
  - Removing affected vegetable crop parts
  - Practising organic farming
28. Alex is planning to make soap using natural ingredients. Which of the following would be a suitable natural resource to use as a base for soap making?
- Coconut oil
  - Petroleum jelly
  - Mineral oil
  - Artificial fragrances
29. Three of the following are forms of soap. Which one is NOT?
- Bar
  - Powder
  - Liquid
  - Water
30. Bobby has leftover food from dinner. What is the best way to store the leftovers to keep them fresh?
- Leave the leftovers uncovered on the counter.
  - Store the leftovers in an airtight container in the refrigerator.
  - Keep the leftovers at room temperature.
  - Store leftovers in a plastic bag without sealing it.

## Section B

Answer ALL the questions provided. ( 40 Marks)

31. Below is a structure used to store crop produce after harvesting.



a) Identify the structure.

(1 Mark)

\_\_\_\_\_

b) Name **two** other structures used to store crop produce after harvesting.

(2 Marks)

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

c) Give **four** reasons for storing harvested crop produce.

(4 Marks)

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

iv) \_\_\_\_\_

d) Why do you think it is necessary to dry the harvested grain for storage.

(1 Mark)

\_\_\_\_\_

32. a) What is organic farming?

(2 Marks)

\_\_\_\_\_

b) Identify **three** organic farming practices applied in crop production.

(3 Marks)

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_



- c) The method shown in the picture below was used to control weeds in the farm.



Identify the method.

(1 Mark)

- d) Name **two** other physical methods of controlling weeds.

(2 Marks)

i) \_\_\_\_\_

ii) \_\_\_\_\_

- e) Give **three** importance of practising organic farming.

(3 Marks)

i) \_\_\_\_\_

ii) \_\_\_\_\_

iii) \_\_\_\_\_

33. Omanyala, a farmer in Kakamega, rears poultry, grows trees, and grows vegetables on his farm. He also practises fish farming.

- a) Describe **two** relational benefits between rearing poultry and growing vegetables in Omanyala's farm.

(2 Marks)

\_\_\_\_\_  
\_\_\_\_\_

- b) How does planting trees help in conservation of the soil?

(1 Mark)

\_\_\_\_\_  
\_\_\_\_\_

- c) Do you think rearing of fish in Omanyala's farm benefits the poultry? Give a reason for your answer.

(2mks)

\_\_\_\_\_  
\_\_\_\_\_

34. Njeri, a learner in Junior school, was asked by her Agriculture teacher to give four importance of conserving forage. What was the correct response she gave? ( 4 Marks)

- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- iii) \_\_\_\_\_
- iv) \_\_\_\_\_

35. a) Give two reasons for observing high standards of hygiene when handling food. (2 Marks)

- i) \_\_\_\_\_
- ii) \_\_\_\_\_

b) How will you conserve the leftover food where there is no refrigerator? (1 Mark)

\_\_\_\_\_

\_\_\_\_\_

c) Your mother asked you to prepare the leftover cassava for consumption. Briefly describe how you would do it. (2 Marks)

\_\_\_\_\_

\_\_\_\_\_

36. When preparing homemade soap using natural, safe and locally sustainable ingredients, identify **three** safety precautions to observe. ( 3 Marks)

- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- iii) \_\_\_\_\_

37. Give a reason why the number of people is a factor to consider when preparing a balanced diet. (1 Mark)

\_\_\_\_\_

\_\_\_\_\_

38. State **three** types of cleaning the kitchen surface. (3 Marks)

- i) \_\_\_\_\_
- ii) \_\_\_\_\_
- iii) \_\_\_\_\_