



TARGETER WINGS



KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

GRADE 9 - 2026

TIME: 1 Hour 40 Minutes

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 20.
6. Section **B** comprises short, structured questions number 21 to 31.
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	4	5	4	4	5	10	3	5
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:

In the Question Paper:

16. Grade 7 learners are planning a balanced meal for a class event. They must ensure that the meal had different food groups. Which of the following shows a balanced meal?

- A. Chapati, rice and green bananas
 C. Rice, chips and meat

- B. Rice, spinach and fish
 D. Chips, soda and fish

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.

AGRICULTURE GRADE 9

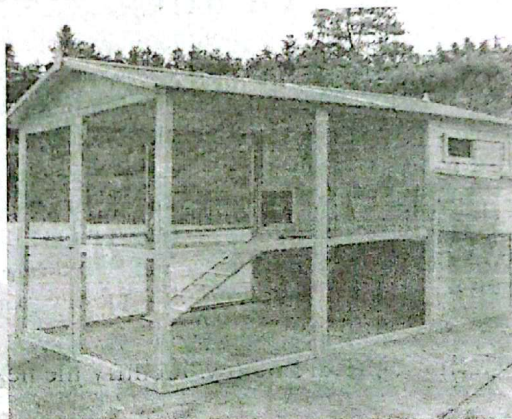
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Section A (30 Marks)

Answer ALL the questions provided.

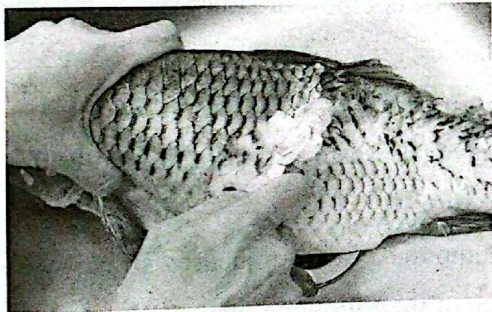
- Grade 7 learners at Tumaini Junior school, prepared a balanced class meal. Which of the following is a balanced meal?
 - Beans, mandazi, chips
 - Ugali, beans, chicken
 - Rice, cabbage, eggs
 - Sweet potatoes chips, sausages
- Okello spilled raw meat juices on the kitchen counter. His mother advised him to immediately clean the kitchen counter. What do you think was the reason?
 - To avoid surface stains
 - To make the counter shiny
 - To use less detergent
 - To prevent spread of harmful bacteria
- During rainy season, Grade 9 learners observed that soil was being carried away from the upper section of their school garden. Their agriculture teacher advised them to plant grass along the waterways. How does this practice help in conserving soil?
 - By absorbing all the rain water before it reaches the soil.
 - By reducing the speed of running water and minimizing soil erosion.
 - By completely stopping rain from falling on the soil.
 - By compacting the soil and making it harder
- Grade 8 learners harvested maize and debated whether to sell it fresh or to process it. Which of the following is the benefit of processing maize into flour?
 - Maize flour earns higher market prices.
 - Raw maize is always more nutritious.
 - Buyers dislike maize flour.
 - Flour becomes heavier to transport.

- Which one of the following is **not** a factor to consider when planning for a balanced meal?
 - Age
 - Gender
 - Health status
 - Method of cooking
- Grade 8 learners visited the school nearby farm, they saw the poultry structure shown below. Which of the following is **not** a reason for using such a structure?



- Protection from theft
 - Protection from harsh weather
 - To control disease spread
 - To expose poultry to vultures
- After making bar soap, learners were advised to leave the soap to cure for 2-3 weeks. What is the main reason for curing soap?
 - To increase the size of the soap.
 - To allow excess water to evaporate and make the soap hard and gentle.
 - To soften the soap so that it dissolves quickly in water.
 - To add more colour and fragrance later.
 - Mary, a Grade 9 learner, was advised by her mother to apply oil on fish fillets before grilling. Why was this necessary?
 - To prevent the fish from sticking to the grill.
 - To reduce flavour.
 - To cook without heat.
 - To burn the fish faster.

9. A community built an earth basin for storing surface runoff. What is an advantage of this method?
- It does not store enough water
 - Water harvested can be given to the livestock
 - It is an expensive method of conserving water
 - It ensures availability of water for farming during scarcity
10. While taking care of seedlings in the school farm, Allan said mulching should be done. What is the benefit of mulching to the crops?
- It exposes seedlings to the sunlight
 - It promotes soil erosion
 - It conserves moisture in the soil
 - It allows seedlings to fight for nutrients and moisture
11. Okumu saw his mother processing the fish as shown in the picture below. Identify the next step after the one shown.



- Gutting
 - Scaling
 - Removal of offals
 - Salting
12. Grade 9 learners constructed a poultry waterer. After two weeks, they noticed a significant reduction in water wastage compared to their old drinkers. Which observation best explains why the innovative drinker was more water efficient?
- It allowed birds to overturn the drinker easily
 - Water continuously overflowed to keep the drinker full
 - The drinker needed frequent refilling due to constant dripping
 - The drinker released water only when the birds pecked the valve
13. A farmer noticed that soil from his garden was being washed away during heavy rains. His extension officer advised him to use the trashline method to conserve soil. What is the **main** purpose of using this method?
- To cover the soil with stones and rocks only
 - To reduce soil erosion by creating barriers with crop residues along the contour lines.
 - To increase the speed of water flow on the soil surface.
 - To make the soil hard and compact for planting
14. A farmer wanted credit information delivered directly to his phone for buying farm inputs. Which agricultural support service did he use?
- Banking services
 - Extension services
 - Veterinary services
 - Input supply services
15. Learners compared two seams on a school uniform shirt. One seam was straight, strong, and neatly finished, while the other had loose threads and uneven stitches. What conclusion can they make about the second seam?
- It meets all the qualities of a good seam.
 - It is suitable for heavy and long-lasting garments.
 - It shows neatness and durability.
 - It is weak and lacks neatness.
16. During an Agriculture project, Grade 9 learners harvested raw honey from beehives. Their teacher advised them to process the honey before packaging and selling it. Why is processing raw honey important?
- It adds artificial sweetness to the honey
 - It removes impurities such as wax, dead bees and particles
 - It makes the honey expire faster
 - It reduces the market value of the honey

17. A farmer observed that a nearby restaurant was dumping plastic waste on his land as shown in the picture below. What is the effect of such poor plastic waste disposal?



- A. It enriches the soil with nutrients
 - B. It conserves soil water
 - C. It pollutes the soil
 - D. It helps organic waste decompose
18. A community group planted tree seedlings during Mazingira day. After two weeks, the seedlings withered. Which step had they missed?
- A. Mulching to conserve moisture
 - B. Pruning the seedlings
 - C. Planting in direct sunlight
 - D. Watering only once
19. Maina, a farmer in Kiambu County, noticed that caterpillar pests were damaging his vegetable crops. Which one of the following is **not** a physical method of controlling caterpillars in vegetable crops?
- A. Applying ash on the affected crops
 - B. Uprooting the affected part of the crop
 - C. Uprooting the whole vegetable crop if it is badly damaged
 - D. Applying chemical pesticides

20. While taking a walk through his vegetable farm, the farmer observed the pest shown below. What damage does this pest cause?



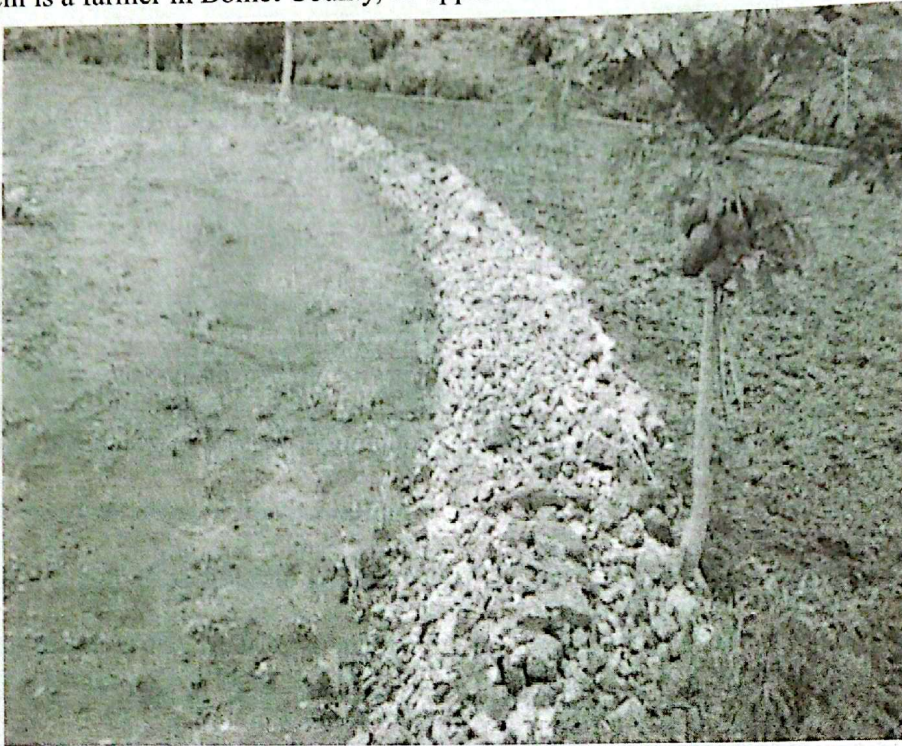
- A. Puncturing leaves
 - B. Curling leaves
 - C. Cutting the stem
 - D. Eating fruits
21. A farmer observed that leftover crop residues and plastics were accumulating on his farm. What is the **best** way to prevent soil pollution from these materials?
- A. Bury of compost organic waste and recycle plastics.
 - B. Burn all the waste in the field.
 - C. Leave the waste to decompose naturally on the surface.
 - D. Dump the waste into nearby streams.
22. Which of the following is a common method of preserving meat?
- A. Drying, smoking and refrigeration.
 - B. Leaving it under the sun for several days.
 - C. Mixing it with sand.
 - D. Boiling it and leaving it uncovered.
23. Grade 8 learners set up a framed suspended garden at school. What is the **main** advantage of using this type of garden?
- A. It allows crops to grow without soil
 - B. It makes crops grow faster than in normal soil
 - C. It reduces the need for sunlight
 - D. It prevents soil erosion and saves space in small areas.

24. What is an important safety measure when constructing or using a water pond for rainwater harvesting?
- Building steep sides that are unsafe for children.
 - Allowing stagnant water to collect waste.
 - Ensuring the pond has gentle slopes and fencing to prevent accidents.
 - Covering the pond with soil immediately.
25. When grilling at home, which of the following is a safety precaution learners should observe?
- Standing close to the grill to check it constantly.
 - Using long-handled tools and keeping children away from heat.
 - Spraying water directly on the grill to cook faster.
 - Leaving the grill unattended to avoid smoke.
26. A family decided to plant vegetables and herbs in their backyard. What is the main purpose of a kitchen or backyard garden?
- To earn money only
 - To decorate the backyard only
 - To keep animals away from the house
 - To provide fresh vegetables, fruits and herbs for household consumption
27. Which of the following factors is considered when grading eggs?
- Colour, size and shell quality
 - Price and brand only
 - Shape of the chicken
 - Age of the farmer
28. A farmer noticed that topsoil was being washed away from his farm during heavy rains. How does soil conservation help in this situation?
- By allowing soil to wash away faster.
 - By making the soil sandy.
 - By reducing soil erosion and preserving fertile topsoil.
 - By making crops grow slower
29. Which of the following is a key benefit of planting trees in the environment?
- Trees increase soil pollution.
 - Trees absorb carbon dioxide and help regulate temperature and climate.
 - Trees reduce the amount of oxygen in the air.
 - Trees increase soil salinity.
30. How should kitchen surfaces be cleaned to maintain hygiene?
- Wipe once and leave the surface wet.
 - Leave food residues to dry before cleaning.
 - Use only water without scrubbing.
 - Scrub with detergent or soap, rinse with clean water and allow it to dry.

Section B

Answer ALL the questions provided. (40 Marks)

31. Mwachi is a farmer in Bomet County, he applies the soil conservation method shown below.

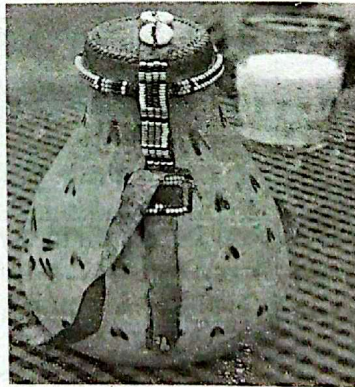


a) Identify the method of soil conservation shown above. (1 Mark)

b) State **three** benefits of soil conservation in the agricultural environment. (3 Marks)

- i) _____
- ii) _____
- iii) _____

32. The picture below shows an equipment used to preserve milk at my grandmother's home.



a) Identify the method used to preserve milk using the equipment above. (1 Mark)

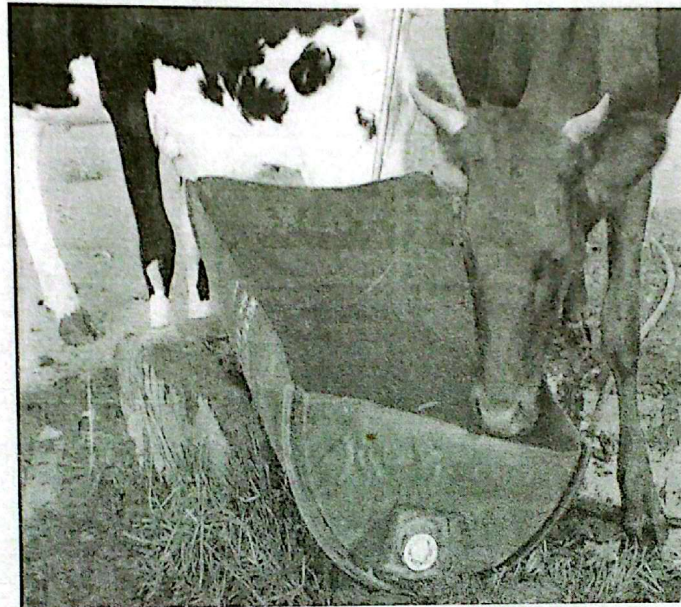
b) Apart from the method named above in question (32.a), name **two** other methods of preserving milk. (2 marks)

- i) _____
- ii) _____

c) State **two** benefits of preserving milk at home. (2 marks)

- i) _____
- ii) _____

33. During the agriculture practical lesson, grade 8 learners constructed the waterer equipment shown below.



a) State **four** challenges they might have encountered when constructing the above waterer. (4 Marks)

- i) _____
- ii) _____
- iii) _____

34. State **four** factors one should consider when choosing seams for clothe fabrication. (4 Marks)

- i) _____
- ii) _____
- iii) _____
- iv) _____

35. Define the following practices used in crop management. (5 Marks)

- i) Thinning - _____
- ii) Weeding - _____
- iii) Pruning - _____
- iv) Earthing up - _____
- v) Mulching - _____

36.a) Differentiate between roasting and grilling methods of cooking food.

(2 Marks)

b) Name **four** foods that are cooked through roasting method.

(4 Marks)

i) _____

ii) _____

iii) _____

c) State **four** safety measures one should observe when roasting food.

(4 Marks)

i) _____

ii) _____

iii) _____

37. Grade 8 learners prepared spinach for their parents during the school open day. State **three** ways they conserved vitamins and minerals during the preparation and cooking process.

(3 Marks)

i) _____

ii) _____

iii) _____

38. a) Define surface run-off

(2 Marks)

b) Name **three** structures used to conserve surface run-off.

(3 Marks)

i) _____

ii) _____

iii) _____