

Candidate's Name	
School Name	
Candidate's Signature	

Assessment Number	
School Code	
Date	



THE KENYA NATIONAL EXAMINATIONS COUNCIL
KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

906/1

AGRICULTURE AND NUTRITION (Theory)

PAPER 1

SAMPLE PAPER

JANUARY 2025

Time: 1 hour 40 minutes

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 **42**.
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

Task	Task 1: Agriculture							Task 2: Nutrition				
Question	31	32	33	34	35	36	37	38	39	40	41	42
Maximum score	3	3	3	3	4	4	4	2	2	5	2	5
Candidate's score												
Total per task												

This paper consists of 12 printed pages.

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

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SECTION A

Please read these 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 in this section 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 answers are given. The answers are lettered **A, B, C** and **D**. In each case, only **ONE** of the four choices is correct. Choose the **correct** answer.
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:

17. Nairobi City dwellers put garbage at designated areas. The huge amounts of garbage are collected by trucks and deposited at the Dandora dumpsite. This pollutes soil **mainly** by
- A. agricultural chemical wastes.
 - B. artificial fertilizer application.
 - C. plastic wastes.
 - D. waste water.

The correct answer is '**C**'.

On the answer sheet, In the set of boxes numbered 17, draw a **DARK LINE** inside the box with the letter **C** printed in it as marked below.

17. [A] [B] [~~C~~] [D]

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

SECTION A (30 marks)

Answer **ALL** the questions in this section.

- Grade 8 learners carried out caring practices on their tree seedlings. Which practice helped to protect the seedlings against physical damage?
 - Mulching.
 - Pruning.
 - Shading.
 - Weeding.
- Which one of the following activities carried out by learners in their school is **more** likely to pollute soil?
 - Applying artificial fertilizers in the garden.
 - Dumping animal droppings in the garden.
 - Collecting plastic bottles from the garden.
 - Dumping kitchen waste in the garden.
- Learners carried out some activities on soil and water conservation. Which activity is **most** suitable for harvesting surface run-off for farming?
 - Constructing gabions.
 - Constructing retention ditches.
 - Mulching with dry grass.
 - Planting cover crops.

During a field visit to study methods of soil conservation, Grade 8 learners took the following picture. Use it to answer questions **4** and **5**.



- Identify the practice.
 - Cover cropping.
 - Relay cropping.
 - Mono cropping.
 - Strip cropping.
- The following are roles of the practice shown in the picture:
 - increasing organic matter content;
 - increasing water infiltration;
 - reducing evaporation of soil water;
 - reducing the speed of run-offs;
 - trapping soil.

Which **two** roles **best** help to conserve soil?

 - (i) and (ii).
 - (ii) and (iii).
 - (iii) and (iv).
 - (iv) and (v).
- A farmer uses a water pan to harvest and store water for domestic use. Which one of the following statements is **true** about water pans? Water pans
 - are found in high rainfall areas;
 - are recharged by tap water;
 - can lose water through seepage;
 - retain water throughout the year.

The following picture shows a practice in poultry rearing. Use it to answer question 7 and 8.



7. Identify the practice. Egg _____
- collection.
 - sorting.
 - grading.
 - packing.
8. Which hygiene practice should the farmer observe during the practice shown in the picture?
- Dust the birds.
 - Provide laying nests and nesting materials.
 - Wash feeders and waterers.
 - Wash hands and wipe the eggshells.

The following picture shows a type of garden used by a farmer. Use it to answer questions 9 and 10.



9. Identify the garden.
- Suspended garden.
 - Raised bed garden.
 - Moisture bed garden.
 - Horizontal garden.
10. Give the **main** reason why the farmer uses the type of garden shown in the picture. To
- utilize limited space.
 - increase yields.
 - control crop pests.
 - control crop diseases.

Grade 7 learners wanted to establish a crop using the following planting material. Study and use it to answer questions 11 and 12.



11. Identify the planting material.
- Tubers.
 - Splits.
 - Seeds.
 - Vines.
12. To establish the crop, the learners should prepare land to a
- coarse tilth and broadcast the planting materials.
 - fine tilth and broadcast the planting materials.
 - fine tilth and drill the planting materials.
 - medium tilth and dig the planting holes.

13. Grade 7 learners carried out thinning and gapping on their maize plot. At what stage of growth did the learners carry out the practices?
- At planting.
 - After flowering.
 - After germination.
 - During weeding.
14. A farmer inspected his vegetable crop and observed holes on the leaves. Which pest **most** likely damaged the leaves?
- Aphids.
 - Birds.
 - Caterpillars.
 - Cutworms.
15. Different types of crops are grown in a kitchen garden. Which one of the following crops is **not** likely to be grown in a kitchen garden?
- Tomatoes.
 - Sorghum.
 - Kales.
 - Ginger.

The following picture shows value addition practice in crop production. Use it to answer questions 16 to 18.



16. Which of the following pairs of crops is more appropriate for the value addition practice shown?

- Arrow roots and potatoes.
- Sweet potatoes and groundnuts.
- Groundnuts and pumpkin.
- Pumpkin and simsim.

17. During the value addition process for the crop shown, water is used for
- boiling.
 - cooling.
 - frying.
 - washing.

18. The value addition practice shown was **mainly** carried out because of the following **except**
- appealing to more consumers.
 - creating a unique brand.
 - increasing shelf life.
 - increasing the market price.

19. Which of the following methods of cooking is the most appropriate for conserving nutrients in vegetables?
- Baking.
 - Boiling.
 - Stewing.
 - Steaming.

20. The doctor has advised your grandmother to include wholemeal flour in her diet. Which of the following is a reason why the doctor gave the advice? It
- contains many minerals.
 - contains less fibre.
 - is easy to cook.
 - lasts long.

Basting is a technique used in roasting foods. Use this information to answer questions **21** and **22**.

- 21.** What is the meaning of the term basting?
- A. Immersing food in lemon.
 - B. Sprinkling food with vinegar.
 - C. Adding spices and herbs on food.
 - D. Applying oil on food during cooking.
- 22.** Which one of the following is an advantage of basting food?
- A. Maintains the temperature of food.
 - B. The cooked food lasts long.
 - C. Prevents food from drying.
 - D. Reduces cooking time.
- 23.** Tina has invited her friends for dinner. The **most** suitable style of food service she could use to serve the meal is
- A. blue plate service.
 - B. buffet service.
 - C. table service.
 - D. tray service.
- 24.** Identify a food item that can be preserved by all the following methods: boiling, drying, smoking and freezing.
- A. Eggs.
 - B. Meat.
 - C. Fruits.
 - D. Milk.
- 25.** Bundi wants to launder his loose coloured apron. Which of the following practices would help him prevent excess loss of colour?
- A. Using hot water to wash.
 - B. Soaking before washing.
 - C. Washing using friction method.
 - D. Washing using kneading and squeezing.
- 26.** Karao wants to unblock the kitchen sink. One way he can use is
- A. pouring hot water.
 - B. pouring a disinfectant.
 - C. cleaning with a lot of soap.
 - D. cleaning with a lot of water.
- 27.** Which one of the following is an activity carried out during the daily cleaning of a kitchen?
- A. Cleaning the walls.
 - B. Removing cobwebs.
 - C. Wiping the windows.
 - D. Emptying the dustbin.
- 28.** Salt is one of the ingredients used in making home-made soap. What is the importance of adding the salt?
- A. Disinfecting the soap.
 - B. Separating the soap.
 - C. Softening the soap.
 - D. Thickening the soap.
- 29.** Teacher James advised Grade 9 learners to always store dressmaker's pins in a covered container after use. One reason why teacher James gave the advice is to
- A. ensure the pins last long.
 - B. ensure safety of the learners.
 - C. maintain the shape of the pins.
 - D. maintain appearance of the pins.
- 30.** Salsa wants to knit a scarf for her friend. Which of the following sets of tools and materials will she require?
- A. Knitting needles, yarn and scissors.
 - B. Needles, thread and tape measure.
 - C. Yarn, thread and sewing needle.
 - D. Yarn, thread and tape measure.

SECTION B (40 marks)

Answer ALL the questions in this section.

31. Reusing laundry wastewater for irrigation causes soil pollution.

- (a) Explain how the soil is polluted when laundry wastewater is used for irrigation.

(1 mark)

- (b) Give **two** ways of harvesting rainwater for irrigating vegetables in a school garden.

(2 marks)

32. Grade 8 learners prepared a kitchen garden shown in the photograph below.



- (a) Identify the type of kitchen garden the learners prepared.

(1 mark)

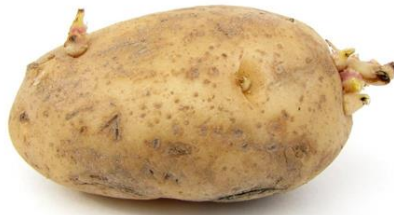
- (b) Give **two** ways in which the learners can control diseases on the crops planted in the kitchen garden.

(2 marks)

33. Grade 7 learners prepared a planting site for the planting materials shown below.



X



Y

(a) What is the appropriate tith of planting material labelled Y. (1 mark)

(b) Give **two** caring practices that will be carried out when establishing the planting materials labelled Y. (2 marks)

34. The diagram below shows a housing structure used for poultry rearing.



E

(a) Identify the structure. (1 mark)

(b) Give **one** function of the part labelled E

(1 mark)

(c) Give **one** disadvantage of using the above structure for poultry rearing. (1 mark)

35. Grade 7 learners observed a farmer milking a cow as shown in the photograph below.



(a) Give **two** ways in which the farmer can ensure proper hygiene during milking. (2 marks)

(b) Give **two** ways in which the farmer can preserve the milk. (2 marks)

36. Grade 9 learners took an excursion to study integrated farming on a neighbouring farm which grows maize, vegetables, fruit trees, and rears fish and chicken.

(a) Explain how the farm is integrated. (1 mark)

(b) Give **two** benefits of practicing integrated farming. (2 marks)

(c) Give a reason why the fruit tree seedlings planted on the farm should be grafted. (1 mark)

37. Grade 9 learners want to conserve forage as a class project.

(a) Name **two** method of conserving forage the learners can use. (2 marks)

(b) Give **two** reasons why farmers should conserve forage. (2 marks)

38. Members of the Health and Nutrition Club were searching for ways of conserving nutrients when preparing and cooking vegetables. Outline **two** ways of conserving nutrients the learners may have found. (2 marks)

39. Some Grade 9 learners made a chart on advantages of cleaning open drainages. Outline **two** advantages they may have included in the chart. (2 marks)

40. A group of learners were discussing how to plan and prepare balanced meals.

(a) State **two** factors to consider when planning meals the learners may have discussed.

(2 marks)

(b) Write **three** foods that make a balanced meal the learners can prepare for lunch. (3 marks)

41. It is always advisable to disinfect household articles used by the sick. Outline **two** importance of disinfecting the articles. (2 marks)

42. Grade 9 learners are making mandazi during a practical.

(a) Outline **two** reasons why the learners should sieve the flour before mixing it with other ingredients. (2 marks)

(b) Highlight **three** qualities of well cooked mandazi the learners should achieve. (3 marks)

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