

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

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

806/1

AGRICULTURE AND NUTRITION (Theory)

PAPER 1

TERM 2 ENDTERM 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

		<i>Task 1: Agriculture</i>					<i>Task 2: Nutrition</i>						
Task	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													

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 in this section.

1. During a soil practical, learners observed that one soil type felt very sticky when wet and could be rolled into long ribbons. Which type of soil has this characteristic and the highest water retention capacity?

- A. Sandy soil B. Clay soil
- C. Loam soil D. Silt soil

2. Mr. Koech has a farm on a steep slope. To prevent soil erosion and collect rainwater, he built structures that look like steps along the hillside.



Which method of conserving soil and water is he using?

- A. Constructing gabions
- B. Constructing terraces
- C. Planting cover crops
- D. Practicing mulching

3. Sarah is helping her mother remove small, unwanted plants growing around the maize in their garden. Which tool is specifically designed for this task?

- A. Spade B. Fork jembe
- C. Hand trowel D. Garden slasher

4. A farmer recorded the number of litres of milk each cow produced daily and the number of eggs collected from the chicken coop. These entries are examples of what type of simple farm records?

- A. Marketing records B. Input records
- C. Production records D. Financial records

5. When handling chemicals like pesticides on the farm, learners are advised to wear protective gear, including gloves. Wearing gloves is a safety measure primarily against what type of harm?

- A. Cuts B. Burns
- C. Poisoning D. Animal bites

6. Before choosing where to plant tea bushes, which require specific growing conditions, a farmer considers whether the land is flat, gently sloping, or steep. Which environmental factor influencing agriculture is the farmer assessing?

- A. Climate B. Soil
- C. Topography D. Vegetation

7. To plant small seeds like carrots, the soil bed needs to be very fine and crumbly. Preparing the soil to a fine tilth is most suitable for planting crops using which type of material?

- A. Tubers B. Seeds
- C. Cuttings D. Splits

8. Mr. Kamau wants to improve the genetic quality of his dairy herd by carefully selecting which bull mates with which cow. This practice is part of which aspect of animal production?

- A. Feeding B. Housing
- C. Breeding D. Healthcare

9. Learners observed that some of the young tomato seedlings in the nursery were falling over and rotting at the base. This condition is a common seedling problem known as

- A. pest infestation. B. damping off.
- C. nutrient deficiency. D. weed infestation.

10. In areas where irrigation is practiced, sometimes salts can build up in the soil, making it hard for crops to grow. Which soil management practice helps to remove excess water and salts from the soil?

- A. Mulching B. Drainage
- C. Terracing D. Strip cropping

11. A farmer noticed that a certain type of bean plant in their field was not affected by a common bean disease that affected other varieties. Using plant varieties that are naturally resistant to diseases is an example of which pest and disease control method?

- A. Chemical
- B. Biological
- C. Cultural
- D. Integrated

12. Baba Caro has several ponds on her farm where she raises fish for sale.



This type of animal rearing is known as

- A. apiculture.
- B. sericulture.
- C. aquaculture.
- D. dairy farming.

13. After harvesting maize, a farmer needs to take it from the farm to the market where buyers are located. Which marketing function involves moving the produce from one place to another?

- A. Grading
- B. Storage
- C. Transportation
- D. Packaging

14. Mrs. Akinyi views her poultry keeping and vegetable farming not just as activities but as a way to earn a living and make a profit. This approach of treating farming as a business is called

- A. hobby farming.
- B. agricultural science.
- C. agribusiness.
- D. subsistence farming.

15. Mr. Otieno uses a mobile phone app that gives him information about the best time to plant crops based on expected rainfall patterns. This is an example of using which modern tool in agriculture?

- A. Agricultural economics
- B. Agricultural law
- C. Agricultural communication and information technology
- D. Farm structures

16. On a gently sloping field, a farmer planted alternating strips of maize and beans following the curve of the land.



Which method of soil conservation is this farmer using?

- A. Terracing
- B. Cover cropping
- C. Strip cropping
- D. Mulching

17. Adding well-rotted manure (compost) to the soil before planting has multiple benefits. It improves both the ability of the soil particles to stick together (structure) and provides nutrients for plants. It improves

- A. only the soil structure.
- B. only the soil fertility.
- C. both soil structure and fertility.
- D. soil acidity.

18. Heavy rainfall can wash away the top layer of soil if it's not protected. Which practice helps control soil erosion by covering the soil surface and reducing the speed of water flowing over it?

- A. Irrigation
- B. Drainage
- C. Vegetation cover
- D. Harvesting

19. A farmer noticed that the lower leaves of his maize plants were turning yellow along the middle vein, while the edges remained green. This is a common symptom of deficiency of which essential plant nutrient?

- A. Phosphorus
- B. Nitrogen
- C. Potassium
- D. Calcium

20. Which type of animal feed, like maize grain or molasses, is primarily given to provide animals with energy?

- A. Legume hay
- B. Mineral supplements
- C. Energy feeds
- D. Protein supplements

21. John has decided to stop eating meat and fish, and only eats foods like fruits, vegetables, grains, and legumes. What is a person who follows this diet called?

- A. Carnivore
- B. Omnivore
- C. Herbivore
- D. Vegetarian

22. Your mother is cooking beef stew.



She lets it cook slowly for a long time in liquid. Which cooking method is suitable for making tough cuts of meat tender through slow, moist cooking?

- A. Roasting
- B. Grilling
- C. Stewing
- D. Frying

23. To prevent tomatoes from spoiling quickly, Mama Mboga dries them in the sun. Which food preservation method involves removing most of the water from food?

- A. Canning
- B. Freezing
- C. Drying
- D. Salting

24. When setting the table for a formal dinner, the knives and spoons are placed on the right side of the plate. On which side of the plate should the fork be placed?

- A. To the right of the plate
- B. To the left of the plate
- C. Above the plate
- D. On the plate

25. While playing, Kevin stained his shirt with blood. To remove this type of stain effectively, which temperature of water should be used first?

- A. Hot water
- B. Warm water
- C. Cold water
- D. Boiling water

26. Your school uniform is dirty and needs cleaning. The process of washing clothes using water and detergent is generally called

- A. pressing.
- B. ironing.
- C. dry cleaning.
- D. laundering.

27. When your family decides what meals to cook for the week, they consider factors like who is eating (e.g., young children, older people), their activities, and the available ingredients. A well-planned meal should always consider the

- A. cost only.
- B. time available only.
- C. nutritional needs of the people eating.
- D. colour of the food only.

28. After cooking and eating, you need to clean the kitchen and dishes. Before washing dishes with soap and water, what is the first step you should take to make cleaning easier?

- A. Rinsing with clean water.
- B. Scraping off food remains into a bin.
- C. Soaking the dishes in water.
- D. Arranging dishes by size.

29. In a Home Science class, learners are using a sewing machine to stitch fabric. Which part of the sewing machine is directly responsible for creating the stitches in the fabric by piercing it and carrying the thread?

- A. Bobbin
- B. Presser foot
- C. Needle
- D. Tension disc

30. Mary wants to make a warm scarf using yarn and two long needles, creating loops that interlock. Which textile craft is she planning to do?

- A. Sewing
- B. Embroidery
- C. Knitting
- D. Crocheting

SECTION B (40 marks)

Answer ALL the questions in this section.

31. Your class visited a farm to observe advanced soil and water conservation methods.

(a) Name two types of structural conservation methods that involve building physical structures on the land to control erosion and water flow, which you might have observed. (2 marks)

(b) The farmer also planted low-growing plants that cover the soil surface between main crops or during off-season. Explain one advantage of using these cover crops for soil conservation. (1 mark)

32. You are learning about how plants get the nutrients they need to grow well.

(a) Name two essential plant nutrients that crops require in large quantities for healthy growth. (2 marks)

(b) If a maize plant's older leaves show a yellowing starting from the tip and moving along the middle vein, while the edges remain green, this is a sign of deficiency of which specific nutrient? (1 mark)

33. Pests and diseases are a major challenge for farmers. Your teacher discussed different ways to manage them.

(a) Give two methods of controlling crop pests that involve using farming practices, rather than chemicals or other organisms. (2 marks)

(b) While effective, using chemical pesticides has drawbacks. What is one major disadvantage of relying heavily on chemical pesticides for pest control? (1 mark)

34. A farmer is planning the feeding schedule for their dairy cows. They need to provide a balanced diet using different feeding systems.

(a) Name two common systems or methods used to feed dairy cattle. (2 marks)

(b) What is meant by providing animals with a "balanced ration"? (1 mark)

35. On a farm, various structures are needed for housing animals and storing materials.

(a) State two important factors a farmer should consider when choosing the best location on their farm to build a house for chickens. (2 marks)

(b) Give two purposes for having a general farm store building. (2 marks)

36. Understanding basic agricultural economics helps farmers make smart decisions.

(a) Differentiate between the activities of "production" (growing/raising farm items) and "consumption" (using farm items) in agriculture. (2 marks)

(b) Outline two factors, other than price, that can influence how much of a particular agricultural product (like tomatoes) consumers want to buy (demand). (2 marks)

37. After harvesting maize, a farmer needs to handle and sell it properly.

(a) Name two common traditional or modern methods used by farmers to store harvested maize on the farm before selling it. (2 marks)

(b) Give two reasons why farmers should sort their maize to remove damaged grains and grade it according to quality before taking it to the market. (2 marks)

38. Before starting to prepare food for your family meal, ensuring personal cleanliness is vital.

Outline two hygienic practices you should always observe regarding your hands and appearance before you begin handling food ingredients. (2 marks)

39. To reduce food wastage, it is often necessary to preserve food.

State two advantages or benefits of preserving food items. (2 marks)

40. Planning meals helps ensure everyone's nutritional needs are met.

(a) State two important reasons why planning meals in advance is a good practice for a household. (2 marks)

(b) Outline three different factors, other than age, that should be considered when planning meals for a family. (3 marks)

41. You accidentally spilled some juice on your shirt, causing a stain. Different stains require specific treatments.

Give two general steps you should follow immediately or soon after getting a stain on fabric before attempting to wash it normally. (2 marks)

42. Keeping the kitchen clean is essential for health and safety. You have just finished preparing and eating a meal, and the kitchen surfaces need cleaning.

(a) Outline two reasons why regularly cleaning your kitchen, especially the work surfaces, is important. (2 marks)

(b) Describe three steps you would follow to safely and effectively clean a kitchen work surface after preparing food. (3 marks)

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