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| **Candidate’s** |  |  |  | **Assessment** |  |
| **Name** |  |  |  | **Number** |  |
|  |  |  |  |  |  |
| **School Name** |  |  |  | **School Code** |  |
|  |  |  |  |  |  |
| **Candidate’s** |  |  |  | **Date** |  |
| **Signature** |  |  |  |  |
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|  | **KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT** | | | | |

**906/1**

**AGRICULTURE AND NUTRITION (Theory)**

**PAPER 1**

**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.**

**This paper consists of 6 printed pages.**

**Candidates should check the question paper to ascertain that**

**all the pages are printed as indicated and that no questions are missing.**

**Turn over**

**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**

1. Use an ordinary **HB** pencil.
2. 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**

1. Keep the answer sheet clean and dry. **DO NOT** fold it.
2. 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.
3. 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

1. agricultural chemical wastes.
2. artificial fertilizer application.
3. plastic wastes.
4. 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]**

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

屴

**SECTION A** (30 marks)

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

1. **Grade 8 learners visited a neighboring farmer and saw how he conserved his forage. Which of the following is NOT a method of conserving forage?**  
   A) Haymaking B) Silage making  
   C) Mulching D) Dehydration



1. **What is the importance of conserving leftover foods?**  
   A) Reduces waste  
   B) Increases food insecurity  
   C) Encourages pests  
   D) Causes spoilage
2. One of the components of **integrated farming** is:  
   A) Mono-cropping  
   B) Mixed farming  
   C) Chemical farming  
   D) Burning of crop residues
3. **Which practice is common in organic gardening?**  
   A) Using synthetic fertilizers  
   B) Using compost manure  
   C) Spraying chemicals  
   D) Growing genetically modified crops
4. **The best way to prepare a storage structure before storing crop produce is:**  
   A) Applying pesticides only  
   B) Cleaning and fumigating  
   C) Leaving it open for air circulation  
   D) Covering with plastic sheets
5. **Which of the following is a product made from flour mixtures?**  
   A) Githeri B) Mandazi  
   C) Ugali D) Chips
6. **The main cause of soil erosion is:**  
   A) Proper land use  
   B) Removal of vegetation cover  
   C) Crop rotation  
   D) Adding organic manure
7. **Which of the following is NOT a soil conservation measure?**  
   A) Terracing B) Strip cropping  
   C) Deforestation D) Cover cropping
8. **Which of the following is a method of water harvesting?**  
   A) Mulching  
   B) Digging terraces  
   C) Using farm ponds  
   D) Burning crop residues
9. **Kitchen gardening helps in:**  
   A) Reducing the supply of vegetables  
   B) Producing fresh vegetables at home  
   C) Increasing food wastage  
   D) Using chemical fertilizers
10. **Which structure is used in poultry rearing in a fold?**  
    A) Battery cage  
    B) Free-range system  
    C) Deep litter system  
    D) Open-air grazing
11. **An example of a crop pest is:**  
    A) Rust B) Weevils  
    C) Wilt D) Blight
12. **The best way to manage crop diseases is:**  
    A) Burning infected plants  
    B) Overusing pesticides  
    C) Ignoring sick crops  
    D) Applying excess fertilizers
13. **A good egg should have:**  
    A) A rough shell  
    B) A small yolk  
    C) A clean and smooth shell  
    D) A watery albumen



1. **What quality defines good honey?**  
   A) High water content  
   B) Strong fermentation smell  
   C) Thick consistency  
   D) Sour taste
2. **Which method is best for preserving milk and meat?**  
   A) Salting  
   B) Burning  
   C) Keeping in open air  
   D) Boiling only



1. **Which is a moist cooking method?**  
   A) Roasting B) Frying  
   C) Boiling D) Grilling
2. **A balanced meal should contain:**  
   A) Proteins only  
   B) Carbohydrates only  
   C) Vitamins only  
   D) Carbohydrates, proteins, and vitamins
3. **Which is NOT a way of cleaning the kitchen?**  
   A) Sweeping the floor  
   B) Using soap and disinfectants  
   C) Leaving dirty dishes overnight  
   D) Cleaning cooking utensils after use
4. **Which of the following is an example of sewing skills?**  
   A) Ironing clothes  
   B) Cutting fabric and stitching  
   C) Wearing clothes  
   D) Cooking food
5. **A household item that can be constructed using sewing skills is:**  
   A) A table B) A pillowcase  
   C) A spoon D) A window
6. **A good household animal waterer should:**  
   A) Be made from glass  
   B) Be easy to access by animals  
   C) Contain hot water  
   D) Be easily breakable
7. **Which ICT support service is useful in agriculture?**  
   A) Internet banking  
   B) Weather forecasting apps  
   C) Online shopping  
   D) Video streaming
8. **A farm practice that conserves soil and water is:**  
   A) Monocropping  
   B) Zero tillage  
   C) Ploughing against the slope  
   D) Cutting down trees
9. **An example of an organic gardening crop is:**  
   A) Maize  
   B) Tomatoes  
   C) Cotton  
   D) Pine trees
10. **A component of integrated farming is:**  
    A) Burning crop residues  
    B) Using chemical fertilizers  
    C) Fish farming  
    D) Planting only one type of crop
11. **A suitable way of conserving forage is:**  
    A) Spreading on open ground  
    B) Storing in a humid environment  
    C) Making silage  
    D) Drying and storing in an open area
12. **Which flour mixture is used in baking?**  
    A) Maize flour B) Cake flour  
    C) Ugali flour D) Millet flour
13. **Which is a method of preparing eggs for consumption?**  
    A) Soaking  
    B) Steaming  
    C) Fermenting  
    D) Peeling
14. **Water storage is important because:**  
    A) It reduces farm production  
    B) It helps during drought  
    C) It increases soil erosion  
    D) It promotes wastage



**SECTION B** (40 marks)

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

1. Define integrated farming and list two of its components.

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1. Explain two methods of conserving leftover foods.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Identify three ways of preparing a storage structure before storing crop produce.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Describe two soil conservation measures.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. List two types of water harvesting structures and their importance.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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5. Name three types of kitchen gardens.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Explain the importance of kitchen gardening.

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1. Describe three methods of preserving eggs.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. List two qualities of a good egg.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Explain the importance of honey in food.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Name three common crop diseases and their control measures.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Identify three methods of cooking meat.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Give three types of flour mixtures and their uses.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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7. Describe two sewing skills used in making household items.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
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8. Explain how ICT is used in modern farming.
   1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**Marking scheme**

**SECTION A:** (30 marks)

1. **C)** Mulching
2. **A)** Reduces waste
3. **B)** Mixed farming
4. **B)** Using compost manure
5. **B)** Cleaning and fumigating
6. **B)** Mandazi
7. **B)** Removal of vegetation cover
8. **C)** Deforestation
9. **C)** Using farm ponds
10. **B)** Producing fresh vegetables at home
11. **B)** Free-range system
12. **B)** Weevils
13. **A)** Burning infected plants
14. **C)** A clean and smooth shell
15. **C)** Thick consistency
16. **A)** Salting
17. **C)** Boiling
18. **D)** Carbohydrates, proteins, and vitamins
19. **C)** Leaving dirty dishes overnight
20. **B)** Cutting fabric and stitching
21. **B)** A pillowcase
22. **B)** Be easy to access by animals
23. **B)** Weather forecasting apps
24. **B)** Zero tillage
25. **B)** Tomatoes
26. **C)** Fish farming
27. **C)** Making silage
28. **B)** Cake flour
29. **B)** Steaming
30. **B)** It helps during drought

**31.**

1. **Integrated farming** is a system that combines different farming activities such as crop cultivation, livestock keeping, and fish farming for sustainability.
2. **Components:** Mixed farming, Aquaculture, Agroforestry, Organic gardening.

**32.**

1. **Refrigeration:** Keeps food fresh for longer.
2. **Drying:** Removes moisture to prevent spoilage.

**33.**

1. Cleaning the structure thoroughly
2. Applying pesticides to control pests
3. Ensuring proper ventilation to avoid mold growth

**34.**

1. **Terracing:** Prevents soil erosion on steep slopes.
2. **Mulching:** Retains soil moisture and prevents erosion.

**35.**

1. **Farm Ponds:** Store rainwater for irrigation.
2. **Water Tanks:** Collect and store rainwater for household use.

**36.**

1. Hanging garden
2. Container garden
3. Multi-storey garden

**37.**

1. Provides fresh vegetables
2. Promotes food security
3. Reduces household food expenses

**38.**

1. Boiling
2. Refrigeration
3. Salting

**39.**

1. Strong, smooth shell
2. Thick and clear egg white

**40.**

1. Honey is a natural sweetener.
2. Has medicinal and antibacterial properties.

**41.**

1. **Rust:** Controlled by using resistant crop varieties.
2. **Blight:** Managed by crop rotation and fungicides.
3. **Wilt:** Prevented by proper drainage and soil treatment.

**42.**

1. Boiling
2. Roasting
3. Frying

**43.**

1. **Cake flour:** Used in baking cakes.
2. **Maize flour:** Used for making ugali.
3. **Wheat flour:** Used for chapati and mandazi.

**44.**

1. **Stitching:** Used to join fabric pieces.
2. **Hemming:** Finishes fabric edges neatly.

**45.**

1. ICT helps farmers access market prices online.
2. Provides weather updates for planning farming activities.
3. Allows farmers to learn modern farming techniques through online platforms.