 **KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT**

 **KEJSEA ENDTERM ONE 2025**

 **GRADE 9**

 **906/1- AGRICULTURE AND NUTRITION (THEORY)**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**School: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**

**Duration:** 2 Hours
**Total Marks:** 70 marks

 **FOR FACILITATOR’S USE ONLY**

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| --- | --- | --- | --- | --- |
| SCORE RANGE  | 60-69 | 50-59 | 26-49 | 0-25 |
| LEVEL  | EXCEEDING EXPECTATION | MEETING EXPECTATION | APPROACHING EXPECTATION | BELOW EXPECTATION |
| LEARNER’S SCORE |  |  |  |  |
| TICK LEVEL |  |  |  |  |

**General Instructions:**

1. **Read all questions carefully** before answering.
2. **Write your answers in the space provided** for each question.
3. **Use clear and concise language** in your responses.
4. **Answer all questions** to the best of your ability.
5. **Write legibly**. Unreadable answers may not be awarded marks.
6. **Do not leave any questions unanswered**. If you are unsure of an answer, try your best to provide any relevant information.

**SECTION A: MULTIPLE CHOICE QUESTIONS (40 MARKS)**

**(Answer all questions. Each question carries 2 marks.)**

1. Which of the following is NOT a method of soil conservation?
A. Mulching
B. Contour ploughing
C. Overgrazing
D. Terracing
2. The best way to improve soil fertility is by:
A. Burning crop residues
B. Applying organic manure
C. Flooding the soil
D. Leaving the land bare
3. Which of the following is a leguminous fodder crop?
A. Napier grass
B. Desmodium
C. Maize
D. Wheat
4. The term ‘zero grazing’ in dairy farming means:
A. Allowing animals to graze freely
B. Feeding animals in a confined space
C. Rotating grazing land
D. Keeping animals without feeding them
5. Which of these is a sign of good egg quality?
A. Cracked shell
B. Watery albumen
C. Thick and firm albumen
D. Large air space
6. Which method is used to preserve perishable foods for a longer period?
A. Boiling
B. Freezing
C. Slicing
D. Peeling
7. The main function of calcium in animal nutrition is:
A. Improve vision
B. Strengthen bones and teeth
C. Provide energy
D. Enhance growth
8. Which of the following practices contributes to environmental conservation?
A. Deforestation
B. Agroforestry
C. Overgrazing
D. Mining
9. One major advantage of organic farming is that:
A. It increases chemical use
B. It reduces soil fertility
C. It conserves the environment
D. It reduces biodiversity
10. The part of an egg that contains most of the nutrients is:
A. The shell
B. The albumen
C. The yolk
D. The chalaza
11. Which of the following is NOT an animal feed ingredient?
A. Cottonseed cake
B. Bone meal
C. Sisal fiber
D. Sunflower seed cake
12. The primary function of carbohydrates in human nutrition is to:
A. Build muscles
B. Provide energy
C. Strengthen bones
D. Improve digestion
13. The most suitable container for storing drinking water is:
A. A metallic can
B. A plastic bucket
C. A clay pot
D. A wooden box
14. Which of the following is an example of kitchen waste that can be used to feed animals?
A. Spoiled plastic containers
B. Vegetable peels
C. Leftover soap
D. Used batteries
15. A good kitchen garden should be located:
A. Near a garbage pit
B. Far from the house
C. In a well-drained area
D. On a steep slope
16. The main benefit of crop rotation is:
A. Increasing pests
B. Improving soil fertility
C. Reducing plant growth
D. Increasing soil erosion
17. One disadvantage of overfeeding animals is:
A. Increased production
B. Weight loss
C. Obesity and reduced productivity
D. Better immunity
18. Which of these is a method of preserving vegetables?
A. Freezing
B. Boiling
C. Blanching
D. Both A and C
19. Which nutrient is essential for body-building?
A. Proteins
B. Carbohydrates
C. Fats
D. Vitamins
20. A proper method of storing eggs for long periods is:
A. Exposing them to sunlight
B. Keeping them in a refrigerator
C. Placing them on a hot surface
D. Storing them in open air

**SECTION B: STRUCTURED QUESTIONS (60 MARKS)**

**(Answer all questions.)**

1. (a) Define soil conservation. (2 marks)

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(b) Explain three benefits of soil conservation. (6 marks)

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1. (a) Mention two sources of animal feeds. (2 marks)

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(b) Describe four characteristics of high-quality feeds. (8 marks)

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1. (a) Outline three benefits of agroforestry. (6 marks)

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(b) State four ways of conserving kitchen leftovers for animal feeds. (4 marks)

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1. (a) Explain two advantages of organic farming. (4 marks)

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(b) List three ways of storing perishable foods. (6 marks)

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1. (a) Define food preservation. (2 marks)

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(b) Describe four methods of preserving vegetables. (8 marks)

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1. (a) Identify two factors to consider when selecting a kitchen garden site. (2 marks)

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(b) Explain four importance of kitchen gardens. (8 marks)

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1. (a) Name two common poultry diseases. (2 marks)

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(b) Explain three ways of preventing poultry diseases. (6 marks)

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1. (a) State three characteristics of a good egg. (3 marks)

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(b) Explain four ways of handling eggs to maintain quality. (7 marks)

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1. (a) Define a balanced diet. (2 marks)

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(b) List five essential nutrients in a balanced diet and their functions. (8 marks)

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1. (a) Outline three reasons why food hygiene is important. (6 marks)

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(b) Explain two methods of improving food safety at home. (2 marks)

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1. A child was observed to have the following features of a certain nutritional deficiency disease.



 Identify the malnutrition disease. **2 markS**

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 **MARKING SCHEME**

ANSWERS

**MARKING SCHEME**

### ****SECTION A: MULTIPLE CHOICE QUESTIONS (40 MARKS)****

1. C. Overgrazing
2. B. Applying organic manure
3. B. Desmodium
4. B. Feeding animals in a confined space
5. C. Thick and firm albumen
6. B. Freezing
7. B. Strengthen bones and teeth
8. B. Agroforestry
9. C. It conserves the environment
10. C. The yolk
11. C. Sisal fiber
12. B. Provide energy
13. C. A clay pot
14. B. Vegetable peels
15. C. In a well-drained area
16. B. Improving soil fertility
17. C. Obesity and reduced productivity
18. D. Both A and C
19. A. Proteins
20. B. Keeping them in a refrigerator

### ****SECTION B: STRUCTURED QUESTIONS (60 MARKS)****

1. (a) Soil conservation refers to the practice of protecting soil from erosion and maintaining its fertility. (2 marks)
(b) Benefits of soil conservation: (6 marks)
	* Prevents soil erosion
	* Enhances soil fertility
	* Promotes sustainable farming
2. (a) Sources of animal feeds: (2 marks)
	* Plants (e.g., fodder crops)
	* Animal by-products (e.g., bone meal)
	(b) Characteristics of high-quality feeds: (8 marks)
	* High in nutrients
	* Free from contaminants
	* Easily digestible
	* Properly stored to prevent spoilage
3. (a) Benefits of agroforestry: (6 marks)
	* Enhances soil fertility
	* Reduces erosion
	* Provides fodder and firewood
	(b) Ways of conserving kitchen leftovers for animal feeds: (4 marks)
	* Drying
	* Fermenting
	* Storing in airtight containers
	* Mixing with other feeds
4. (a) Advantages of organic farming: (4 marks)
	* Reduces chemical use
	* Promotes soil health
	(b) Ways of storing perishable foods: (6 marks)
	* Refrigeration
	* Canning
	* Drying
	* Salting
5. (a) Food preservation is the process of treating food to prevent spoilage. (2 marks)
(b) Methods of preserving vegetables: (8 marks)
	* Drying
	* Freezing
	* Pickling
	* Canning
6. (a) Factors to consider when selecting a kitchen garden site: (2 marks)
	* Accessibility to water
	* Soil fertility
	(b) Importance of kitchen gardens: (8 marks)
	* Provides fresh vegetables
	* Reduces food expenses
	* Enhances nutrition
	* Promotes self-sufficiency
7. (a) Common poultry diseases: (2 marks)
	* Newcastle disease
	* Coccidiosis
	(b) Ways of preventing poultry diseases: (6 marks)
	* Vaccination
	* Proper sanitation
	* Providing balanced nutrition
8. (a) Characteristics of a good egg: (3 marks)
	* Clean shell
	* Thick albumen
	* Small air space
	(b) Ways of handling eggs to maintain quality: (7 marks)
	* Store in a cool place
	* Avoid washing before storage
	* Handle with care to prevent cracks
	* Store with the broad end up
9. (a) A balanced diet is a meal that contains all essential nutrients in the right proportions. (2 marks)
(b) Essential nutrients and their functions: (8 marks)
	* Carbohydrates: Provide energy
	* Proteins: Body-building
	* Fats: Energy storage
	* Vitamins: Boost immunity
	* Minerals: Strengthen bones and teeth
10. (a) Importance of food hygiene: (6 marks)
	* Prevents foodborne diseases
	* Maintains food quality
	* Enhances food safety
	(b) Methods of improving food safety at home: (4 marks)
	* Proper food storage
	* Cooking food thoroughly
11. Marasmus