SIGNAL Publishers

GRADE 9 - 2025

THE SCHOLAR
004

SIGNAL CBE ASSESSMENT

FOURTH TRIAL

JUNIOR SCHOOL ASSESSMENT

— AGRICULTURE —

TIME: 1 hr 30 min

Learner's Name:

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Grade:

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School Name:

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Assessment No:

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Instructions for Learners:

1. Write down your name, name of your school and assessment number in the spaces provided.
2. This paper consists of 30 questions.
3. Ensure you check the question paper to ascertain that all the pages are printed and that no questions are missing.
4. Answer all the questions in the spaces provided.
5. Be sure to sign the **honour pledge** below at the end of this assessment.

Score Grid

Question	Score	Question	Score
1 - 20		27.	
21.		28.	
22.		29.	
23.		30.	
24.			
25.			
26.			
	Total score		
	Assessed out of	50	

Honour pledge: "I swear on my honour that I have not violated the honour code before or during this assessment".

Signature or Initial: _____ **Date:** _____

ASSESSMENT RUBRICS

Learning area	Performance	Exceeds Expectations (4)	Meets Expectations (3)	Approaching Expectations (2)	Below Expectations (1)
Agriculture					

SECTION A

1. A Grade 9 teacher was teaching his learners how to prepare forage and ensure it does not develop mold. What essential step will he teach them in preparing forage for storage to prevent mold growth?
   A. Stacking B. Bailing
   C. Proper drying D. Compressing
2. While doing her research on forage conservation, Makau found out that the local material that can be used for forage conservation during drought is
   A. maize stover B. wood chips
   C. plastic D. metal.
3. Chef Lavine has leftover beef. What is the safest way for her to reheat the beef before eating?
   A. Rinse it under hot water.
   B. Leave it on the counter to warm up.
   C. Microwave it for 5 minutes.
   D. Reheat it until steaming hot.
4. Vincent asked his classmate to define to him the term integrated farming. What response was he given?
   A. Farming that focuses solely on growing a single type of crop.
   B. A system that integrates crop cultivation, livestock rearing, aquaculture and agroforestry into a single, interdependent system.
   C. A method of farming that relies heavily on chemical fertilizers and pesticides.
   D. Farming that excludes the use of animals in any form.
5. The diagram below shows a type of soil erosion seen on a school farm.

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Which one of the following practices can be used to control the type of erosion shown above?

A. Mulching B. Planting cover crops
C. Building gabions D. Terracing

6. Which one of the following scenarios shows how different components of integrated farming interact?
   A. Using chemical fertilizers and pesticides exclusively for crops.
   B. Keeping livestock and crops completely separate to avoid cross-contamination.
   C. Disposing off all waste products without reusing them.
   D. Using manure from livestock to fertilize crops and using crop resides to feed livestock.
7. Grade 9 learners were discussing about the methods of preserving nutrients in food during cooking. Which one of the following practices helps conserve the vitamins in vegetables?
   A. Cooking with little water.
   B. Overboiling vegetables.
   C. Peeling the vegetables thinly.
   D. Using a pressure cooker for long durations.
8. You work in a tea industry which wants to store harvested rainwater. Which structure will you advise them to use for long term storage?
   A. Open pits B. Surface ponds
   C. Concrete tanks D. Plastic bags
9. A farmer wants to conserve soil nutrients in his farm. He should practice the following practices **except** one. Which one?
   A. Composting B. Monocropping
   C. Using organic fertilizers D. Crop rotation
10. In a certain restaurant in town, they like experimenting different cooking methods. Last week they experimented grilling method. What does the method involve?
    A. Cooking food in an oven.
    B. Boiling food in hot water.
    C. Cooking food over direct heat or flame.
    D. Using steam to cook food.
11. An Agriculture teacher taught his learners about waste management in Agriculture. Which practice is most suitable for reducing soil pollution caused by waste materials?
    A. Burying it in the soil.
    B. Dumping it in rivers.
    C. Burning it openly.
    D. Reusing or recycling it.
12. Which one of the following ways shows how trees help to improve soil fertility?
    A. Absorbing minerals from the soil.
    B. Providing shade.
    C. Adding organic matter through fallen leaves.
    D. Preventing water retention.
13. In a gardening project, learners are studying how water retention structures work. How does these structures help to reduce surface runoff?
    A. Stopping evaporation.
    B. Allowing excess water to escape.
    C. Storing water for future use.
    D. Preventing water from reaching plants.
14. Your school project is planning to start a small-scale farming using organic gardening practices. Which of the following crops will they not grow using organic gardening practices in their school kitchen garden project?
    A. Tomatoes B. Carrots
    C. Apples D. Basil
15. During a class experiment, Grade 9 learners wanted to make a homemade soap. Which one of the following natural ingredients will they collect?
    A. Sugar B. Salt
    C. Sand D. Wood ash
16. The picture below shows a water harvesting and storage system used in water harvesting.

    Identify the storage system shown in the picture.
    A. Above ground storage.
    B. Underground storage.
    C. Shallow water pans.
    D. Reservoirs and ponds.
17. Ruto was asked to mention the benefits of conserving forage in coping with drought. He mentioned the following points except?
    A. Increases the need to purchase expensive commercial feed.
    B. Enhances farm productivity and profitability.
    C. Maintains the nutritional quality of forage.
    D. Ensures a steady supply of animal feed during drought.
18. Luleti is using a method that involves piling forage into a compact stack to conserve it for later use. How do we call this method?
    A. Standing forage B. Box bailing
    C. Baled hay making D. Stacking
19. The picture below shows a bean plant spotted in Wandia's farm.

Which of the following crops can be established using the same vegetative material as the one used to plant the plant above?

A. Sweet potato B. Cassava
C. Maize D. Banana

20. Wanyoike was preparing a class preparation on the benefits of organic gardening. Why is organic gardening important for producing healthy foods?

A. It ensures the use of synthetic chemicals.
B. It reduces the nutritional value of produce.
C. It avoids chemical residues, leading to healthier food.
D. It increases the cost of food production.

SECTION B(30 marks)

Answer all the questions in the spaces provided.

21. What do you understand by the term conserving forage? (1 mark)

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22. Mwaisha and her brother were discussing how their family can cope with the dry season. Mention three methods of conserving forage in coping with drought. (3 marks)

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23. During a class discussion, Grade 9 learners were exploring on the benefits of conserving forage in coping with drought. Which benefits did they learn? (3 marks)

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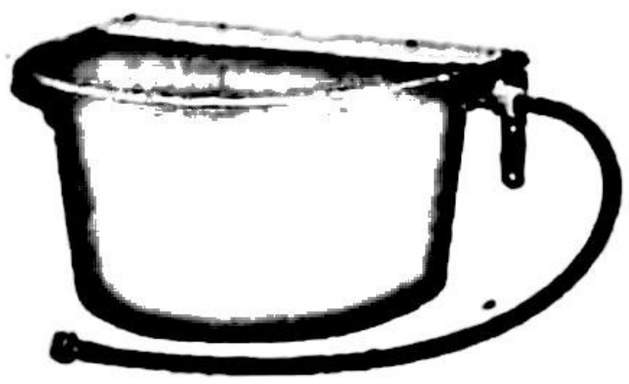
24. Mr. Mwaniki drew the following component of an animal waterer on the chalk.



(a) Identify the component shown above..... (1 mark)

(b) State three uses of animal waterers. (3 marks)

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25. Your teacher asked you to prepare a presentation on the importance of conserving leftovers at home. What will you include in your presentation? (3 marks)

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26. Chef Halima was hired to prepare meals for the guests. State three ways she would apply to promote hygiene while handling food. (3 marks)

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27. Outline four components of integrated farming in conservation of resources. (4 marks)

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28. State two mechanisms used in Integrated farming in conserving resource. (2 marks)

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29. Grade 9 learners were learning about organic gardening. Why is organic gardening important in the production of healthy foods? (3 marks)

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30. Lonka saw the pests shown below on his farm.

(a) Identify the type of crop pests shown in the picture. (1 mark)

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(b) Mention three ways of controlling pests and diseases on crops. (3 marks)

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