

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT**2026****AGRICULTURE AND NUTRITION****Prediction 3****906/1 Time: 1 hour 40 minutes 70 marks**

Name

Assessment number

School

INSTRUCTIONS TO CANDIDATES

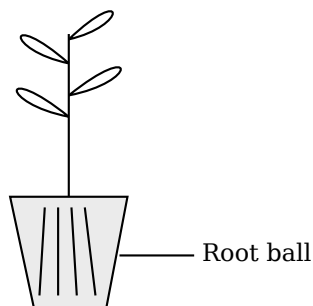
1. Answer all questions in Sections A and B.
2. Section A contains 30 multiple-choice questions. Each carries 1 mark.
3. Choose one answer from A, B, C and D. Shade the corresponding circle on the answer sheet using an HB pencil.
4. Section B carries 40 marks. Write your answers in the spaces provided.
5. Marks for each part are shown in brackets.

Diagrams are not drawn to scale.

SECTION A (30 marks)

Answer all questions. Each question carries 1 mark.

1. The seedling shown is moved from a nursery with soil still around its roots. What is the main benefit?



- A. It prevents all future pests.
 - B. It reduces disturbance of the roots.
 - C. It replaces the need for watering.
 - D. It makes the leaves grow underground.
- 2.** When setting this seedling in a prepared hole, the grower should place it
- A. with all leaves covered by soil.
 - B. on top of loose mulch.
 - C. at approximately its former growing depth.
 - D. with the roots exposed to sunlight.
- 3.** Carrot seedlings have emerged too close together. Which operation gives the remaining seedlings adequate growing space?
- A. Pruning
 - B. Hardening off
 - C. Grafting
 - D. Thinning
- 4.** A trader separates bruised guavas from sound ones before packing. Which quality is being checked?
- A. Freedom from physical damage
 - B. Uniformity of seed number
 - C. Height of the parent tree
 - D. Depth of the planting hole

5. Eggs left in crowded nest boxes are often broken. Which routine should the poultry keeper improve first?

- A. Painting the walls
- B. Collecting eggs frequently
- C. Trimming the birds' wings
- D. Changing the breed of cocks

6. A farmer has made dry hay and rain is approaching. What should the farmer do?

- A. Sprinkle water over the bales.
- B. Leave the bales on wet ground.
- C. Move the bales into a dry, roofed store.
- D. Submerge the bales in a trough.

7. Which activity links crop production and rabbit keeping in an integrated farm?

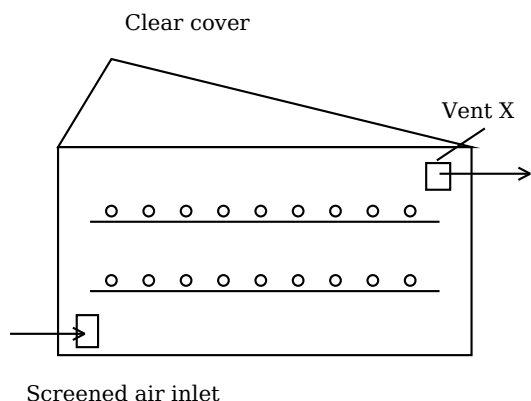
- A. Buying both enterprises new equipment
- B. Keeping separate income records
- C. Using different workers for each enterprise
- D. Feeding suitable vegetable trimmings to rabbits

8. Hay develops mould after being packed while damp. Which preparation was inadequate?

- A. Drying the forage
- B. Tying the ropes
- C. Counting the bales
- D. Marking the store

SECTION A (continued)

9. What is the main purpose of vent X in the food drier?



Screened air inlet

- A. To admit rainwater
 - B. To keep the food permanently wet
 - C. To allow moisture-laden air to leave
 - D. To supply smoke to the trays
- 10.** Why should fruit slices be spread in a single layer on the trays?
- A. To stop air from moving
 - B. To promote even drying
 - C. To prevent sunlight reaching the cover
 - D. To make the slices absorb water
- 11.** A grower joins a scion to a rootstock. Which action directly helps a successful graft union?
- A. Bringing their cambium layers into contact
 - B. Leaving a large air space between the cut surfaces
 - C. Removing every root from the rootstock
 - D. Covering the scion leaves with soil
- 12.** Why are fish guts removed promptly during preparation for preservation?
- A. To increase the fish's water content
 - B. To replace the need for clean utensils
 - C. To make the scales harder
 - D. To reduce a major source of spoilage

13. A packet of pasteurised milk is labelled "Keep refrigerated". Which storage place follows this instruction?

- A. A sunny window ledge
- B. An open kitchen shelf
- C. A working refrigerator
- D. A cupboard beside a cooker

14. A school retains locally occurring trees along a stream. Which environmental benefit is most likely?

- A. The trees remove all insects.
- B. They provide habitat for local organisms.
- C. They prevent every plant disease.
- D. They stop all evaporation.

15. Kale plants in a crowded bed have small, pale lower leaves. Which resource are the leaves most directly competing for?

- A. Light
- B. Staking poles
- C. Harvesting baskets
- D. Packing boxes

16. Grass strips across a sloping field collect sediment after rainfall. How do the strips help conserve soil?

- A. They carry topsoil rapidly downhill.
- B. They remove organic matter from the field.
- C. They expose soil to raindrops.
- D. They trap soil carried by runoff.

17. The first dirty water from a roof is diverted before rainwater enters a storage tank. Why?

- A. To empty the tank completely
- B. To increase dust in the stored water
- C. To reduce entry of roof dirt into the tank
- D. To stop water harvesting during every storm

SECTION A (continued)

18. A household arranges shallow vegetable containers on several strong shelves beside a sunny wall. Which resource is being used more efficiently?

- A. Chemical fertiliser
- B. Limited growing space
- C. Deep ploughing equipment
- D. Large grazing land

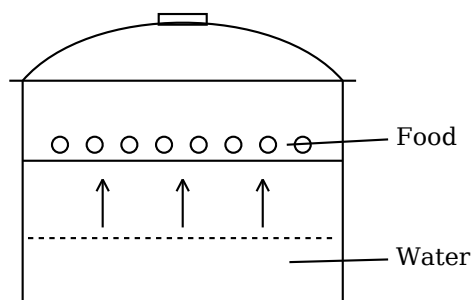
19. Cooked rice is to be eaten later. Which action best limits bacterial growth during storage?

- A. Cool it promptly and refrigerate it in a clean covered container.
- B. Leave it warm beside the stove overnight.
- C. Mix it with uncooked rice.
- D. Keep it in an uncovered pan until the next day.

20. Which sequence best prepares leafy vegetables while limiting loss of water-soluble nutrients?

- A. Chop, soak for hours, then wash
- B. Cook, wash, then slice
- C. Slice finely, wash repeatedly, then store in water
- D. Sort, wash whole leaves, then cut just before cooking

21. Which feature shows that the food in the diagram is being steamed?



- A. It is immersed in hot fat.
- B. It is held above boiling water.
- C. It touches a naked flame.
- D. It is buried in hot ash.

22. An egg is cooked out of its shell in a small amount of gently simmering water. Which cooking method is used?

- A. Roasting
- B. Baking
- C. Poaching
- D. Deep-frying

23. A cook cuts potatoes into small, equal cubes before boiling. What is the main advantage?

- A. The potatoes need no washing.
- B. All their nutrients are removed.
- C. The cubes become larger before cooking.
- D. The pieces cook at a similar rate.

24. Salt helps preserve fish mainly by

- A. drawing out water and limiting microbial growth.
- B. increasing the amount of moisture available to microbes.
- C. replacing the fish protein with minerals.
- D. making hygiene unnecessary.

SECTION A (continued)

25. Why should a dirty worktop be cleaned before it is disinfected?

- A. Dirt improves the disinfectant's colour.
- B. Cleaning replaces all later food hygiene.
- C. Dirt can prevent the disinfectant contacting the surface effectively.
- D. Disinfectant must be mixed with leftover food.

26. A learner suggests mixing bleach with another cleaning chemical. What is the best response?

- A. Mix them to make them smell stronger.
- B. Use products separately as directed on their labels.
- C. Test the mixture by smelling it closely.
- D. Store the mixture in a drinking bottle.

27. During thorough kitchen cleaning, why should high shelves be cleaned before the floor?

- A. The floor will never need cleaning.
- B. Shelves absorb all dirty water.
- C. The dust becomes harmless in the air.
- D. Falling dirt will not soil a floor that has already been cleaned.

28. A greasy plate is washed with soap and warm water. What does the soap help to do?

- A. Loosen and disperse grease so it can be rinsed away
- B. Turn grease into clean drinking water
- C. Make the plate more porous
- D. Leave a thick layer of grease on the plate

29. A learner knits a square but one side is much tighter than the other. What should the learner improve?

- A. The colour of the storage bag
- B. Consistency of yarn tension
- C. The temperature of washing water
- D. The size of the scissors

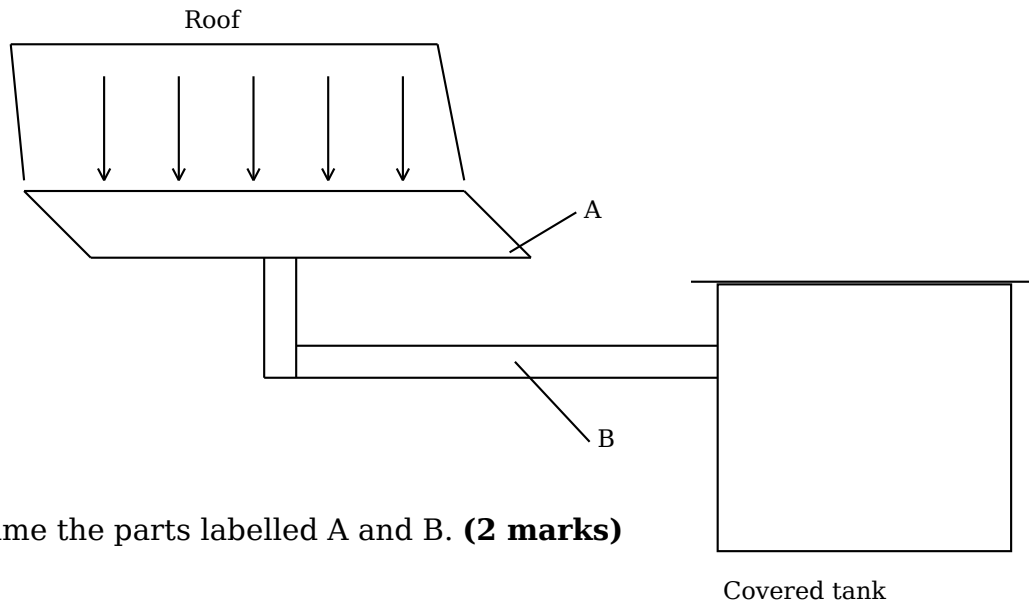
30. A loop slips off a knitting needle and is not secured. What is likely to happen?

- A. The yarn becomes waterproof.
- B. The knitted article turns into woven fabric.
- C. Stitches may run and leave a hole.
- D. The article gains extra rows automatically.

SECTION B (40 marks)

Answer all questions in the spaces provided.

31. Learners collect rainwater from the roof of a garden shed using the system shown.

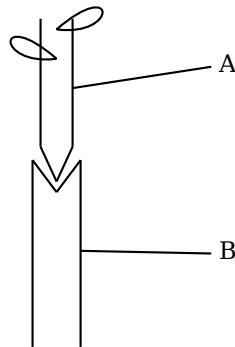


(a) Name the parts labelled A and B. **(2 marks)**

(b) State one way of keeping leaves out of the tank. **(1 mark)**

(c) Explain how using the collected water can help a vegetable project during a dry spell. **(2 marks)**

32. A fruit grower uses the method shown to produce planting materials.



Cleft graft before binding

- (a) Name the parts labelled A and B. **(2 marks)**
- (b) State one desirable quality of the fruiting plant from which part A is taken. **(1 mark)**
- (c) Give one advantage of choosing a rootstock adapted to the local soil conditions. **(1 mark)**
- (d) Explain why the joined area should be bound firmly with suitable grafting tape. **(2 marks)**

33. A school has established a bed of spinach seedlings. During the first week, some seedlings die and weeds appear between the rows.

(a) State two operations learners should carry out to restore a healthy, uniform crop stand. **(2 marks)**

The harvested leaves are later prepared for drying in a screened solar drier.

(b) State two hygiene measures learners should observe when handling the leaves before drying. **(2 marks)**

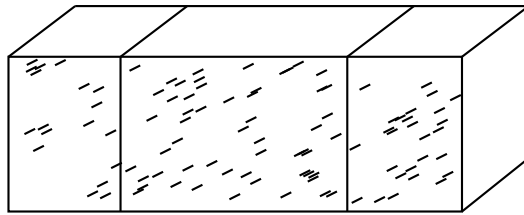
34. A farmers' group grows ripe mangoes and tends young fruit trees.

(a) Name one processed mango product the group can sell. **(1 mark)**

(b) Name the practice of covering soil around young fruit trees with dry grass. **(1 mark)**

(c) State one way the practice in (b) helps young trees during dry weather. **(1 mark)**

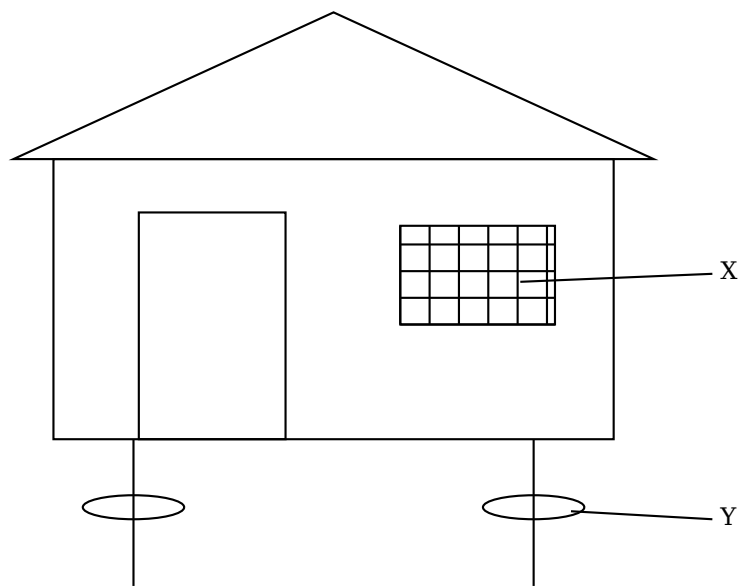
35. Learners prepare the livestock feed shown.



Dry grass tied into a bale

- (a) Name the conserved feed. **(1 mark)**
- (b) State one weather condition suitable for preparing this feed before baling. **(1 mark)**
- (c) State one way livestock manure can benefit an integrated crop and livestock farm. **(1 mark)**

36. The drawing shows a raised grain store.



(a) Give one reason for repairing a leaking roof before storing grain. **(1 mark)**

(b) State the function of part X. **(1 mark)**

(c) Explain how part Y helps protect the stored produce. **(1 mark)**

37. A class prepares a meal of rice, green grams and vegetables for a school gardening club.

(a) Explain two factors the class should consider when deciding the quantities of food to prepare. **(4 marks)**

(b) State two reasons for sorting the green grams before cooking. **(2 marks)**

(c) State two ways of preventing contamination while serving the cooked meal. **(2 marks)**

(d) Explain two reasons for drying washed utensils before storing them. **(4 marks)**

38. Learners knit reusable dishcloths using smooth cotton yarn. The cloths will be used for washing utensils.

State four qualities of cotton yarn that make it suitable for this purpose. **(4 marks)**

END OF EXAMINATION PAPER

AGRICULTURE AND NUTRITION Prediction 3**MULTIPLE-CHOICE ANSWER SHEET**

Name Assessment number

Shade one circle for each question.

1. ☐ A ☐ B ☐ C ☐ D
2. ☐ A ☐ B ☐ C ☐ D
3. ☐ A ☐ B ☐ C ☐ D
4. ☐ A ☐ B ☐ C ☐ D
5. ☐ A ☐ B ☐ C ☐ D
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8. ☐ A ☐ B ☐ C ☐ D
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16. ☐ A ☐ B ☐ C ☐ D
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