

SECTION A (20 marks)

Answer ALL the questions in this section.

1. Which of the following **best** explains why farmers should avoid excessive use of chemical fertilizers to control soil pollution?
 - A. It reduces the number of workers needed in the farm
 - B. It may wash away nutrients and cause soil erosion
 - C. It increases the size of soil particles
 - D. It can poison the soil and kill useful soil organisms
2. Grade 8 learners visited a fruit processing centre. They observed mangoes being cleaned, cut and dried. Which reason **best** explains why drying mangoes is an important value addition process?
 - A. It makes mangoes harder to chew
 - B. It prolongs shelf life and reduces post-harvest losses
 - C. It increases water content in the mangoes
 - D. It reduces the nutritional value of the fruit
3. A beekeeper wants to remove bees wax and other impurities from raw honey before packaging. Which method is **most** suitable for this step?
 - A. Adding cold water to the honey.
 - B. Mixing the honey with soil to absorb impurities.
 - C. Filtering the honey through a clean sieve or cloth.
 - D. Heating the honey until it burns.

4. Which of the following actions should be **avoided** when hardening crop produce?
 - A. Breaking or bruising the skin during harvesting
 - B. Placing the produce on raised racks for good air circulation.
 - C. Keeping produce under shade away from direct sunlight.
 - D. Allowing the produce to dry naturally for several days.

5. Kilonzo uses the equipment shown in the picture below when cooking meat.



Name the method used to cook meat using the above equipment.

- A. Roasting
 - B. Smoking
 - C. Grilling
 - D. Steaming
6. A community group plants trees along a riverbank. What is the **main** importance of planting trees in such an area?
 - A. To reduce rainfall.
 - B. To protect the water source from pollution and drying up.
 - C. To increase soil erosion.
 - D. To attract wild animals to the river.

7. Grade 8 learners were advised to wear gloves and aprons during soap making. What is the **main** reason for this safety precaution?
- To make their clothes look neat.
 - To keep their hands warm.
 - To avoid spilling water on themselves.
 - To prevent chemicals from irritating or harming the skin.
8. Which of the following practices best helps in controlling parasites in small domestic animals like goats and rabbits?
- Regularly cleaning the animal sheds and using disinfectants
 - Allowing animals to graze in dirty areas
 - Mixing young and old animals in the same pen without cleaning
 - Ignoring sick animals.
9. After washing loose coloured clothes, which drying method **best** preserves the quality of the fabric?
- Drying in direct harsh sunlight for several hours.
 - Drying in a well-ventilated shaded area.
 - Hanging clothes in a damp room.
 - Placing clothes on the wet ground to dry.
10. Joan a farmer in Kakamega was seen carrying out the care management practice shown below in her vegetable garden.



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What is the benefit of practising the activity shown above?

- It helps in conserving moisture in the soil.
 - It reduces moisture in the soil.
 - It promotes soil erosion.
 - It promotes competition among crops.
11. When roasting meat over fire, which safety measure is **most** important?
- Placing meat directly on open hands to test temperature.
 - Standing very close to the fire without protection.
 - Using long-handled tools or tongs to avoid burns.
 - Touching fire with your hands without protection.
12. A farmer wants to prepare his field to plant maize. Why is medium soil tilth important for crop growth?
- It prevents seeds from germinating.
 - It makes ploughing unnecessary.
 - It reduces the availability of water for plants.
 - It allows roots to penetrate easily and improves aeration.
13. A poultry farmer wants to sell eggs to a supermarket. Which type of eggs will **most** likely fetch a higher price?
- Large, clean eggs with intact shells
 - Small, dirty eggs with cracks
 - Old eggs with weak shells
 - Eggs mixed with dirt and broken ones

14. A Grade 8 environmental club plans a campaign to reduce soil pollution. Which of the following messages is **most** effective for creating awareness?
- “Throw all waste in nearby bushes.”
 - “Recycle, reuse and properly dispose of waste to protect the soil.”
 - “Use as much chemical fertilizer as possible.”
 - “Ignore waste management; it is not important.”
15. Ogechi is a beekeeper. After processing the raw honey, he stores it in the equipments shown below.



Which of the following is the **main** reason for storing honey in a glass bottle?

- To make it easier for selling
 - To change its colour
 - To prevent the honey from fermenting
 - To allow air to mix with it
16. A learner was advised to avoid peeling vegetables like spinach and carrots unnecessarily. Why is this recommended?
- Peeling increases the weight of the vegetables.
 - Peeling improves the colour of vegetables only
 - Peeling reduces cooking time only.
 - Peeling can remove vitamins and minerals present in or near the skin.

17. Grade 8 learners observed rainwater flowing quickly over a bare farm. What term **best** describes this water movement?
- Surface run-off
 - Groundwater recharge
 - Transpiration
 - Condensation
18. A teacher advised learners to add compost to the soil in a suspended garden. Why is this recommended?
- Compost makes the plants grow slower
 - Compost makes the soil lighter, rich in nutrients and helps retain moisture
 - Compost dries the soil quickly
 - Compost prevents sunlight from reaching the plants
19. Which of the following tools is **most** suitable for thinning seedlings in a nursery?
- Axe for cutting all plants.
 - Watering can for uprooting seedlings.
 - Hoe or hand trowel for carefully removing excess seedlings.
 - Stick for hitting seedlings.
20. Grade 8 learners steamed vegetables during a school activity. What is the **main** advantage of steaming vegetables?
- It removes all water and nutrients from the vegetables.
 - It makes vegetables extremely soft and tasteless.
 - It increases the water content in vegetables
 - It conserves vitamins, minerals and natural flavour of the vegetables.

Section B

Answer ALL the questions provided (30 Marks)

21. Okumu uses the structure shown below to conserve surface run-off.



a) What is the name given to the structure shown above.

(1 Mark)

b) State **three** benefits of conserving surface run-off.

(3 Marks)

- i) _____
- ii) _____
- iii) _____

22. a) Define soil pollution.

(2 Marks)

b) State **three** causes of soil pollution.

(3 Marks)

- i) _____
- ii) _____
- iii) _____

23. Maria's mother is a poultry farmer. She sorts and grades eggs before selling them at the market. State **four** factors she considers when sorting and grading eggs. (4 Marks)

- i) _____
- ii) _____
- iii) _____
- iv) _____

24. a) What is soil tilth? (2 Marks)

b) State **three** categories of soil tilth. (3 Marks)

- i) _____
- ii) _____
- iii) _____

25. Grade 8 learners prepared the framed suspended gardening structure shown below.



State **four** importance of practising framed suspended gardening to a household. (4 Marks)

- i) _____
- ii) _____
- iii) _____
- iv) _____

26. a) What is value addition in crop production?

(2 Marks)

b) State **three** importance of value addition in crop production.

(3 Marks)

i) _____

ii) _____

iii) _____

27. Oscar helped his mother to prepare cabbage for their guests. State **three** ways he conserved vitamins and minerals while cooking.

(3 Marks)

i) _____

ii) _____

iii) _____