

SECTION A (30 marks)

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

Use the following information to answer questions 1 and 2.

The following picture shows a planting material used for establishing bananas.



- Which kind of soil tilth does the planting material require?
 - Fine and medium tilth.
 - Medium tilth.
 - Coarse and fine tilth.
 - Coarse tilth.
- Why is it **not** suitable to establish the planting material on a framed suspended garden? Mature crop will
 - be affected by diseases
 - be affected by pests
 - be heavier
 - dry up.
- Junior School learners carried out a tomato growing project. Which management practices did they carry out soon after transplanting?
 - Gapping, watering, harvesting.
 - Watering, pruning, mulching.
 - Pruning, watering, harvesting.
 - Watering, mulching, gapping.

Use the following information to answer questions 4 and 5.

Mueni sorted and graded eggs for sale as shown in the following picture.



- What factor did she **mainly** consider when sorting and grading the eggs?
 - Dirt
 - Colour
 - Size
 - Cracks
- Which hygiene rearing practice can be carried out to ensure production of clean eggs?
 - Feeding the hens.
 - Watering the hens.
 - Replacing the nesting materials.
 - Cleaning watering containers.
- A Grade 9 Agriculture teacher demonstrated the process of conserving grass pasture for livestock feeding. Which of the following activities did the teacher carry out?
 - Cutting the grass into small pieces and putting in airtight containers.
 - Cutting the grass and drying it for two days before compressing it.
 - Cutting the grass and storing it.
 - Cutting the grass and compressing immediately.
- Grade 9 learners visited a farmer practising integrated farming using the following enterprises: fish rearing, poultry rearing and vegetable farming. Which of the following statements is **true** about the farming described?
 - Poultry manure was sold to other farmers.
 - Fish was fed on commercial feeds.
 - Wastewater from the fish pond was used for irrigation.
 - Artificial fertilizers were applied on the vegetables.

8. A farmer established pasture and fenced the area so that cattle would only be allowed to graze during the drought season.
Name the method of forage conservation used.
- Stacked forage.
 - Standing forage.
 - Silage forage.
 - Baled forage.
9. Grade 9 learners were guided by their Agriculture teacher to discuss how a home-made sun drier works.
Which of the following statements is correct? The drier
- exposes crop produce to fire
 - dehydrates the crop produce
 - has an electric heater
 - works best in humid environment.
10. Grafting is a production technique which improves crop production.
Which of the following statements is true for successful grafting?
- Grafting seedlings should be exposed to strong sunshine.
 - Plants being grafted should be closely related.
 - Shoots growing on rootstocks should not be removed.
 - Graft union should allow water to penetrate.
11. Grade 9 learners listed the following ways of controlling weeds in a farm.
- uprooting weeds
 - use of herbicides
 - use of chemical pesticides
 - use of organic mulch.
- Which of the following pairs of weed control measures is suitable for organic gardening?
- (ii) and (iii)
 - (ii) and (iv)
 - (i) and (iv)
 - (i) and (iii)
12. A learner wants to process fresh fish for preservation.
Which of the following steps should the learner take first?
- Wash the fish thoroughly in clean water.
 - Cut the abdominal region and remove gut.
 - Use a knife to remove scales from the fish.
 - Cut the fish into pieces on a cutting board.
13. After milking, a farmer plans to keep the milk fresh for a week.
Which method would be the most effective for preserving the milk?
- Boiling the milk and then cooling it in a refrigerator.
 - Adding sugar to the milk and storing it at room temperature.
 - Boiling the milk and storing it at room temperature.
 - Keeping the milk in an open container to ferment.
14. Grade 7 learners want to plant indigenous trees in their school compound.
Which of the following is not a reason for planting indigenous trees? They
- provide habitat for local wildlife.
 - require less water compared to exotic species.
 - grow faster than exotic tree species.
 - help in maintaining population of varied tree species.
15. A learner wants to process fresh fish for preservation.
Which of the following steps should the learner take first?
- Wash the fish thoroughly in clean water.
 - Cut the abdominal region and remove gut.
 - Use a knife to remove scales from the fish.
 - Cut the fish into pieces on a cutting board.
16. A learner wants to process fresh fish for preservation.
Which of the following steps should the learner take first?
- Wash the fish thoroughly in clean water.
 - Cut the abdominal region and remove gut.
 - Use a knife to remove scales from the fish.
 - Cut the fish into pieces on a cutting board.
17. A learner wants to process fresh fish for preservation.
Which of the following steps should the learner take first?
- Wash the fish thoroughly in clean water.
 - Cut the abdominal region and remove gut.
 - Use a knife to remove scales from the fish.
 - Cut the fish into pieces on a cutting board.
18. A learner wants to process fresh fish for preservation.
Which of the following steps should the learner take first?
- Wash the fish thoroughly in clean water.
 - Cut the abdominal region and remove gut.
 - Use a knife to remove scales from the fish.
 - Cut the fish into pieces on a cutting board.

15. A farmer notices that his tomato plants in the kitchen garden are not growing well due to poor spacing. Which of the following spacings is the farmer likely to have used?
- 10 cm apart.
 - 30 cm apart.
 - 50 cm apart.
 - 70 cm apart.
16. A farmer has noted that heavy rains always cause soil erosion in her land. Which of the following practices can she use to control the soil erosion?
- Planting cover crops.
 - Increasing the use of chemical fertiliser.
 - Planting crops during the dry season.
 - Using the excess water for irrigation.
17. During a community meeting, an agricultural officer described different methods of water harvesting for growing crops. Which of the following is the **best** method that the officer should recommend for a dry area?
- Constructing shallow water pans.
 - Creating underground reservoirs.
 - Installing rain water gutters on roofs.
 - Using organic manure to conserve soil moisture.
18. A learner wants to start a backyard garden to grow vegetables for their family. They have limited space but want to maximise their yield. Which of the following practices should they carry out?
- Planting vegetables in rows with equal spacing.
 - Using vertical gardening techniques.
 - Growing one type of vegetables at a time.
 - Watering vegetables regularly.

19. Amina preserved food that remained after supper for later use. Which of the following practices should she avoid when re-using the leftover food?
- Reheating the food many times.
 - Adding spices to enhance flavour.
 - Making new dishes.
 - Adding liquids.

Use the following information to answer questions 20 and 21.

A Grade 8 learner has come to seek advice from you on how to cook spinach.

20. Which of the following is one of the practices you would tell the learner to observe?
- Soak the spinach to remove dirt.
 - Wash the spinach after cutting.
 - Cook immediately after cutting.
 - Cut the spinach into very small pieces.
21. You would advise the learner to steam the spinach because steaming
- is an easy method
 - retains nutrients
 - enhances colour
 - is a quick method.

Use the following information to answer questions 22 and 23.

Amina roasted beef for lunch. She noticed that the beef was undercooked in the inside.

22. Which of the following **best** describes the meaning of roasting food? Cooking food
- in hot air
 - in hot oil
 - in boiling liquid
 - using steam.
23. Which of the following is a reason that may have caused the beef to be undercooked in the inside?
- Applying oil on the beef.
 - Too low cooking temperatures.
 - Cooking thin pieces of meat.
 - Too high cooking temperatures.

24. Grade 8 learners were discussing preservation of food. Which of the following methods they discussed can be used to preserve both milk and meat?
- Boiling
 - Salting
 - Smoking
 - Fermenting

Use the following information to answer questions 25 and 26.

Sarah wants to disinfect the kitchen towels she is washing.

25. The main reason she wants to disinfect the towels is to
- improve their colour
 - make them shine
 - remove germs
 - make them soft.
26. Why would you discourage her from using chemicals to disinfect the towels? They
- are very expensive
 - contain harmful substances
 - are difficult to rinse out
 - soften the towels.

27. Aisha is searching for information on activities carried out during special cleaning of a kitchen.

Which of the following is an activity he may have found?

- Cleaning utensils.
 - Sweeping the floor.
 - Emptying the dust bin.
 - Removing cobwebs.
28. Animal fat is one of the ingredients used in the process of making soap. It is normally added to
- improve the colour
 - harden the soap
 - improve the smell
 - soften the soap.

Use the following information to answer questions 29 and 30.

The diagram below shows a stitch used to make a scarf.



29. Identify the stitch.

- Rib stitch
- Back stitch
- Knit stitch
- Purl stitch

30. Which of the following is a characteristic considered when making the stitch shown in the diagram?

- Horizontal wavy lines.
- Intertwined yarns forming loops.
- Spaced stitches that are easy to cut.
- Tiny stitches picking up a thread of fabric.



SECTION B: (40 marks)

Answer all the questions in this section in the spaces provided.

31. Learners in Junior School carried out activities to conserve the environment. They wrote the following message and posted it near their school to create awareness on soil pollution control.



- (a) Apart from dumping plastic waste, give **one** other farming practice that can cause soil pollution. (1 mark)

- (b) Give **one** organic gardening practice the learners can use to prevent soil pollution. (1 mark)

- (c) (i) Name **one** water retention structure that learners can construct in the school to harvest surface water runoffs. (1 mark)

- (ii) Describe how the learners can construct the water retention structure named in (c)(i). (2 marks)

32. Learners constructed the structures shown in the following picture for establishing tree seedlings.

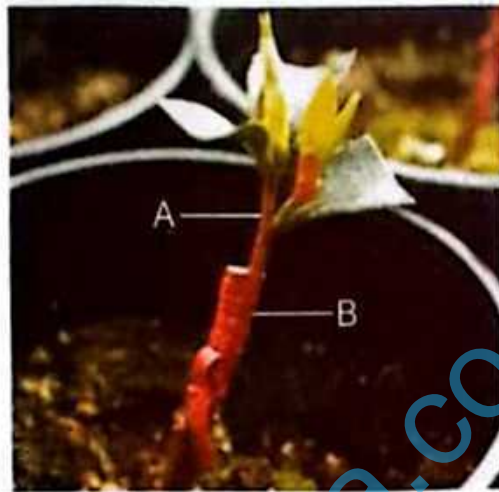


- (a) What is the appropriate soil tilth for planting the tree seeds? (1 mark)

(b) What should the learners consider when deciding on the correct soil tilth? (1 mark)

(c) Explain one way in which trees conserve soil. (1 mark)

(d) A teacher used the following picture to illustrate grafting of fruit tree seedling.



(i) Identify the part labelled A. (1 mark)

(ii) Explain how the part labelled B is handled during grafting to ensure successful union. (2 marks)

33. Grade 7 learners were provided with planting materials shown in the following picture.



- (a) Give **two** caring practices carried out on the crop established from the planting materials. (2 marks)

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- (b) Give **two** advantages of using a homemade sun drier to dry vegetables. (2 marks)

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34. Learners were given a task to discuss and write value addition techniques of various crop produce.

- (a) What did the learners write for simsim crop produce? (1 mark)

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- (b) Name **one** caring practice carried out on potatoes but not common in coriander (*dhania*). (1 mark)

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- (c) Give a reason why the caring practice described in (b) is important. (1 mark)

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35. Learners conserved forage in their school as shown in the following picture.



- (a) Identify the method of forage conservation. (1 mark)

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- (b) What is the **best** stage of harvesting the forage? (1 mark)

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- (c) During a field day, an agricultural extension officer advised farmers to practise integrated farming. Give a reason for the advice. (1 mark)

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36. The following picture shows a storage structure for maize produce.



- (a) Give one way of preparing the structure before storing new maize produce. (1 mark)

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- (b) What is the function of the part labelled F. (1 mark)

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- (c) Why is the part labelled E made of wire mesh? (1 mark)

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37. Asiko has been left to take care of the family over the weekend.

(a) Explain **two** factors he should consider when preparing lunch for the family. (4 marks)

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(b) Outline **two** reasons why he should sieve the flour for making pancakes for breakfast. (2 marks)

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(c) State **two** points Asiko should bear in mind when storing food that remains after lunch. (2 marks)

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(d) Explain **two** reasons why it is important for him to empty the kitchen dustbin when cleaning the kitchen. (4 marks)

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38. Grade 9 learners made presentations on the advantages of using knitted articles for babies' clothes. Outline **four** points they could have included in the presentation. (4 marks)

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