



GOLDLITE ONLINE SUPPLIES

Kenya Junior School Education Assessment (KJSEA)



KJSEA SMARFOCUS QUICK REVISION SERIES

AGRICULTURE AND NUTRITION

SERIES 1-17

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SERIES 1

1. Grade 8 learners used different ICT tools to obtain information about inputs in agriculture. State any **two** inputs they may have seen. **(2mks)**

2. State **three** challenges associated with use of innovative waterers in the community. **(3mks)**

3. Grade 9 prepared the following during conservation of forage. Use the picture to answer the questions that follow.

A



B



a.) Name the **two** methods of conserving hay above. **(2mks)** Method A

Method B

b.) State **three** advantages of conserving hay using method **A** compared to method **B**. **(3mks)**

c.) List down **four** materials required when making hay using method **A**. **(4mks)**

d.) Give **three** factors to consider when selecting the methods of conserving forage. (3mks)

4. Grade 7 learners from a certain school took pictures while planting trees as shown below.



a.) Give **two** ways the learners used to avoid soil pollution during the exercise above. (2mks)

b.) State **three** practices the learners might have used to take care of the trees planted. (3mks)

c.) Give **three** roles played by trees in soil and water conservation. (3mks)

5. Name **three** crops in which earthing up is required. (3mks)

6. The diagram below shows a certain poultry structure. Use it to answer the questions that follow.



a.) Identify the structure above. (1mk)

b.) State any four locally available materials that can be used when constructing the structure. **(4mks)**

c.) Grade 8 learners have been asked by their teacher to locate a suitable site where the structure above can be located. State **three** factors the learners should consider when siting the structure. **(3mks)**

d.) Give **three** routine management practices required when using the structure above in rearing poultry. **(3mks)**

7. The pictures below shows two different types of innovative kitchen gardens used by



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This is a _____ used for _____ during _____ (3mks)

SERIES 2

SECTION A (30 Marks)

Answer ALL the questions in this section.

1. **A farmer in Narok County has been experiencing heavy soil erosion in his farm. What is the best conservation method to prevent further soil loss?**



- A) Crop rotation
B) Planting trees
C) Overgrazing
D) Using chemical fertilizers
2. **Jane's family has a kitchen garden where they grow spinach, sukuma wiki, and carrots. What is the main benefit of this practice?**
A) Increasing food wastage
B) Providing fresh vegetables at home
C) Reducing soil fertility
D) Encouraging use of synthetic fertilizers
3. **After harvesting maize, a farmer noticed weevils in the storage room. What is the best way to prevent further damage?**
A) Store maize with other farm produce
B) Apply chemical pesticides to all stored grains
C) Keep maize in a humid storage area
D) Mix maize with ash or neem leaves
4. **Which of the following is NOT a method of water harvesting?**
A) Building terraces
B) Constructing farm ponds
C) Using underground tanks
D) Digging boreholes
5. **Moses wants to preserve leftover food in his home. Which method is NOT suitable for food preservation?**
A) Refrigeration
B) Sun-drying
C) Leaving food uncovered overnight
D) Salting

6. **A school farm wants to practice integrated farming. Which of the following is an example of this practice?**
- A) Planting one type of crop only
 - B) Using excessive chemical fertilizers
 - C) Keeping livestock and growing crops on the same farm
 - D) Burning crop residues after harvesting
7. **Which of the following food items is made from flour mixtures?**
- A) Githeri
 - B) Mandazi
 - C) Ugali
 - D) Fried fish
8. **Why is it important to conserve soil in agriculture?**
- A) To increase soil erosion
 - B) To improve soil fertility
 - C) To remove organic matter
 - D) To decrease food production
9. **Susan bought eggs from the market. Which feature shows that the eggs are fresh?**
- A) The egg yolk is runny
 - B) The eggshell is cracked
 - C) The egg sinks in water
 - D) The egg has a bad smell
10. **Why should farmers rear indigenous chicken?**
- A) They require less food and care
 - B) They are expensive to maintain
 - C) They do not produce eggs
 - D) They are only kept in cities
11. **Which structure is used in poultry rearing in a fold?**
- A) Battery cage
 - B) Free-range system
 - C) Deep litter system
 - D) Open-air grazing
12. **An example of a crop pest is:**
- A) Rust
 - B) Weevils
 - C) Wilt
 - D) Blight
13. **The best way to manage crop diseases is:**
- A) Burning infected plants
 - B) Overusing pesticides
 - C) Ignoring sick crops
 - D) Applying excess fertilizers
14. **A good egg should have:**
- A) A rough shell
 - B) A small yolk
 - C) A clean and smooth shell
 - D) A watery albumen
15. **What quality defines good honey?**
- A) High water content
 - B) Strong fermentation smell
 - C) Thick consistency
 - D) Sour taste

16. **Which method is best for preserving milk and meat?**
A) Salting
B) Burning
C) Keeping in open air
D) Boiling only
17. **Which is a moist cooking method?**
A) Roasting
B) Frying
C) Boiling
D) Grilling
18. A balanced meal should contain:
A) Proteins only
B) Carbohydrates only
C) Vitamins only
D) Carbohydrates, proteins, and vitamins
19. Which is NOT a way of cleaning the kitchen?
A) Sweeping the floor
B) Using soap and disinfectants
C) Leaving dirty dishes overnight
D) Cleaning cooking utensils after use
20. Which of the following is an example of sewing skills?
A) Ironing clothes
B) Cutting fabric and stitching
C) Wearing clothes
D) Cooking food
21. **A household item that can be constructed using sewing skills is:**
A) A table
B) A pillowcase
C) A spoon
D) A window
22. **A good household animal waterer should:**
A) Be made from glass
B) Be easy to access by animals
C) Contain hot water
D) Be easily breakable
23. Which ICT support service is useful in agriculture?
A) Internet banking
B) Weather forecasting apps
C) Online shopping
D) Video streaming
24. A farm practice that conserves soil and water is:
A) Monocropping
B) Zero tillage
C) Ploughing against the slope
D) Cutting down trees
25. An example of an organic gardening crop is:
A) Maize
B) Tomatoes
C) Cotton
D) Pine trees
26. A component of integrated farming is:
A) Burning crop residues
B) Using chemical fertilizers

- C) Fish farming
 - D) Planting only one type of crop
27. A suitable way of conserving forage is:
- A) Spreading on open ground
 - B) Storing in a humid environment
 - C) Making silage
 - D) Drying and storing in an open area
28. Which flour mixture is used in baking?
- A) Maize flour
 - B) Cake flour
 - C) Ugali flour
 - D) Millet flour
29. Which is a method of preparing eggs for consumption?
- A) Soaking
 - B) Steaming
 - C) Fermenting
 - D) Peeling
30. Water storage is important because:
- A) It reduces farm production
 - B) It helps during drought
 - C) It increases soil erosion
 - D) It promotes wastage

SECTION B (40 Marks)

Answer ALL questions in the spaces provided.

31. John's farm has been affected by soil erosion due to heavy rainfall. Suggest two ways he can prevent further soil loss.
- a) _____
 - b) _____
32. A family has leftover ugali and vegetables. Suggest two ways they can conserve the food to avoid wastage.
- a) _____
 - b) _____
33. Mary wants to keep eggs fresh for a long time. List two methods she can use to preserve them.
- a) _____
 - b) _____
34. A farmer wants to improve soil fertility naturally. Suggest two organic materials he can use.
- a) _____
 - b) _____
35. A school cook wants to prepare healthy meals for students. Suggest two ways of making food more nutritious.
- a) _____
 - b) _____
36. Peter is planning to start a kitchen garden at home. Name two vegetables he can grow in his garden.
- a) _____
 - b) _____
37. Linet bought honey from a market. How can she check if it is pure honey? Give two ways.
- a) _____
 - b) _____
38. A group of farmers wants to start an organic farm. Suggest two farming practices they should use.
- a) _____
 - b) _____

39. **A dairy farmer wants to store milk for a long time. Suggest two methods of preserving milk.**
a) _____
b) _____
40. **Kamau wants to cook meat for his family. Name two cooking methods he can use.**
a) _____
b) _____
41. **Your school wants to start a poultry project. List three structures needed to rear chicken.**
a) _____
b) _____
c) _____
42. **David wants to start a beekeeping business. Suggest two benefits of keeping bees.**
a) _____
b) _____

SERIES 3

SECTION A (30 marks)

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

1. **Grade 8 learners visited a neighboring farmer and saw how he conserved his forage. Which of the following is NOT a method of conserving forage?**
A) Haymaking B) Silage making
C) Mulching D) Dehydration
2. **What is the importance of conserving leftover foods?**
A) Reduces waste
B) Increases food insecurity
C) Encourages pests
D) Causes spoilage
3. **One of the components of integrated farming is:**
A) Mono-cropping
B) Mixed farming
C) Chemical farming
D) Burning of crop residues
4. **Which practice is common in organic gardening?**
A) Using synthetic fertilizers
B) Using compost manure
C) Spraying chemicals
D) Growing genetically modified crops
5. **The best way to prepare a storage structure before storing crop produce is:**
A) Applying pesticides only
B) Cleaning and fumigating
C) Leaving it open for air circulation
D) Covering with plastic sheets
6. **Which of the following is a product made from flour mixtures?**
A) Githeri B) Mandazi
C) Ugali D) Chips
7. **The main cause of soil erosion is:**
A) Proper land use
B) Removal of vegetation cover
C) Crop rotation
D) Adding organic manure
8. **Which of the following is NOT a soil conservation measure?**
A) Terracing B) Strip cropping
C) Deforestation D) Cover cropping
9. **Which of the following is a method of water harvesting?**
A) Mulching
B) Digging terraces
C) Using farm ponds
D) Burning crop residues
10. **Kitchen gardening helps in:**
A) Reducing the supply of vegetables
B) Producing fresh vegetables at home
C) Increasing food wastage
D) Using chemical fertilizers
11. **Which structure is used in poultry rearing in a fold?**
A) Battery cage
B) Free-range system

- C) Deep litter system
- D) Open-air grazing
- 12. **An example of a crop pest is:**
 - A) Rust B) Weevils
 - C) Wilt D) Blight
- 13. **The best way to manage crop diseases is:**
 - A) Burning infected plants
 - B) Overusing pesticides
 - C) Ignoring sick crops
 - D) Applying excess fertilizers
- 14. **A good egg should have:**
 - A) A rough shell
 - B) A small yolk
 - C) A clean and smooth shell
 - D) A watery albumen
- 15. **What quality defines good honey?**
 - A) High water content
 - B) Strong fermentation smell
 - C) Thick consistency
 - D) Sour taste
- 16. **Which method is best for preserving milk and meat?**
 - A) Salting
 - B) Burning
 - C) Keeping in open air
 - D) Boiling only
- 17. **Which is a moist cooking method?**
 - A) Roasting B) Frying
 - C) Boiling D) Grilling
- 18. **A balanced meal should contain:**
 - A) Proteins only
 - B) Carbohydrates only
 - C) Vitamins only
 - D) Carbohydrates, proteins, and vitamins
- 19. **Which is NOT a way of cleaning the kitchen?**
 - A) Sweeping the floor
 - B) Using soap and disinfectants
 - C) Leaving dirty dishes overnight
 - D) Cleaning cooking utensils after use
- 20. **Which of the following is an example of sewing skills?**
 - A) Ironing clothes
 - B) Cutting fabric and stitching
 - C) Wearing clothes
 - D) Cooking food
- 21. **A household item that can be constructed using sewing skills is:**
 - A) A table B) A pillowcase
 - C) A spoon D) A window
- 22. **A good household animal waterer should:**
 - A) Be made from glass
 - B) Be easy to access by animals
 - C) Contain hot water
 - D) Be easily breakable
- 23. **Which ICT support service is useful in agriculture?**
 - A) Internet banking

- B) Weather forecasting apps
 - C) Online shopping
 - D) Video streaming
24. **A farm practice that conserves soil and water is:**
- A) Monocropping
 - B) Zero tillage
 - C) Ploughing against the slope
 - D) Cutting down trees
25. **An example of an organic gardening crop is:**
- A) Maize
 - B) Tomatoes
 - C) Cotton
 - D) Pine trees
26. **A component of integrated farming is:**
- A) Burning crop residues
 - B) Using chemical fertilizers
 - C) Fish farming
 - D) Planting only one type of crop
27. **A suitable way of conserving forage is:**
- A) Spreading on open ground
 - B) Storing in a humid environment
 - C) Making silage
 - D) Drying and storing in an open area
28. **Which flour mixture is used in baking?**
- A) Maize flour B) Cake flour
 - C) Ugali flour D) Millet flour
29. **Which is a method of preparing eggs for consumption?**
- A) Soaking
 - B) Steaming
 - C) Fermenting
 - D) Peeling
30. **Water storage is important because:**
- A) It reduces farm production
 - B) It helps during drought
 - C) It increases soil erosion
 - D) It promotes wastage

SECTION B (40 marks)

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

31. Define integrated farming and list two of its components.

32. Explain two methods of conserving leftover foods.

- a. _____
- b. _____

33. Identify three ways of preparing a storage structure before storing crop produce.

- a. _____
- b. _____
- c. _____

34. Describe two soil conservation measures.

- a. _____
- b. _____

35. List two types of water harvesting structures and their importance.

- a. _____
- b. _____

36. Name three types of kitchen gardens.

- a. _____
- b. _____
- c. _____

37. Explain the importance of kitchen gardening.

38. Describe three methods of preserving eggs.

- a. _____
- b. _____
- c. _____

39. List two qualities of a good egg.

- a. _____
- b. _____

40. Explain the importance of honey in food.

- a. _____
- b. _____

41. Name three common crop diseases and their control measures.

- a. _____
- b. _____
- c. _____

42. Identify three methods of cooking meat.

- a. _____
- b. _____
- c. _____

43. Give three types of flour mixtures and their uses.

- a. _____
- b. _____
- c. _____

44. Describe two sewing skills used in making household items.

- a. _____
- b. _____

45. Explain how ICT is used in modern farming.

- a. _____
- b. _____

SERIES 4

SECTION A: MULTIPLE-CHOICE QUESTIONS (30 MARKS)

1. Which of the following is a method of conserving resources?
 - A) Overgrazing
 - B) Deforestation
 - C) Agroforestry
 - D) Burning waste
2. The best way to conserve animal feed for long-term use is:
 - A) Storing in airtight containers
 - B) Spreading on the ground
 - C) Keeping in damp places
 - D) Mixing with fresh forage
3. One of the methods of conserving hay is:
 - A) Feeding it immediately
 - B) Keeping it in a moist area
 - C) Drying it completely before storage
 - D) Mixing it with silage
4. Leftover food can be conserved by:
 - A) Throwing it away
 - B) Storing in a warm place
 - C) Refrigeration and drying
 - D) Mixing with fresh food
5. One importance of conserving leftover food is:
 - A) Increasing food wastage
 - B) Reducing foodborne diseases
 - C) Increasing food prices
 - D) Making food unsafe
6. Which of the following is a component of integrated farming?
 - A) Growing only one crop
 - B) Combining crop and livestock farming
 - C) Keeping only animals
 - D) Using chemical pesticides excessively
7. Organic gardening promotes:
 - A) Use of synthetic fertilizers
 - B) Conservation of soil fertility
 - C) Burning of crop residue
 - D) Use of genetically modified seeds only
8. One common crop grown in organic gardening is:
 - A) Plastic plants
 - B) Cabbage
 - C) Artificial grass
 - D) Cement blocks
9. The best way to prepare a storage structure before storing crop produce is:
 - A) Fumigating and cleaning
 - B) Leaving it open for pests to enter
 - C) Spraying harmful chemicals
 - D) Placing food directly on the ground
10. A product made from flour mixtures is:
 - A) Sandpaper
 - B) Chapati

- C) Fuel
 - D) Engine oil
- 11.** Soil erosion is mainly caused by:
- A) Planting trees
 - B) Deforestation and overgrazing
 - C) Adding manure
 - D) Mulching
- 12.** Which of the following is a soil conservation measure?
- A) Burning forests
 - B) Planting cover crops
 - C) Removing topsoil
 - D) Overgrazing
- 13.** One method of water harvesting is:
- A) Digging shallow holes
 - B) Constructing water tanks
 - C) Burning waste
 - D) Cutting down trees
- 14.** An important structure used for water harvesting is:
- A) Storage dam
 - B) Plastic bag
 - C) Electric pole
 - D) Fence
- 15.** Kitchen gardening provides:
- A) Fresh vegetables
 - B) More pollution
 - C) High food costs
 - D) Less nutritious food
- 16.** A common type of kitchen garden is:
- A) Hanging garden
 - B) Concrete block
 - C) Underground tank
 - D) Roadside garden
- 17.** One major crop pest is:
- A) Antelope
 - B) Caterpillar
 - C) Giraffe
 - D) Elephant
- 18.** A crop disease caused by fungi is:
- A) Blight
 - B) Typhoid
 - C) Cholera
 - D) Malaria
- 19.** Good quality eggs should have:
- A) Clean, smooth shells
 - B) Cracked shells
 - C) Bad smell
 - D) Greenish yolk
- 20.** The best way to preserve milk is:
- a) Boiling and refrigerating
 - b) Keeping in open sunlight
 - c) Mixing with water
 - d) Leaving it in warm conditions
- 21.** One method of cooking food is:
- A) Roasting
 - B) Freezing

- C) Washing
 - D) Soaking
- 22.** A balanced meal contains:
- A) Only carbohydrates
 - B) A mixture of proteins, carbohydrates, and vitamins
 - C) Only fats and oils
 - D) Only one type of food
- 23.** The best way to clean the kitchen is:
- A) Sweeping and mopping regularly
 - B) Leaving food particles on the floor
 - C) Piling up dirty utensils
 - D) Spreading waste on the floor
- 24.** A common sewing skill is:
- A) Stitching fabric
 - B) Burning fabric
 - C) Tearing clothes
 - D) Leaving fabric unfinished
- 25.** A key practice in adding value to crop produce is:
- A) Processing and packaging
 - B) Burning crops
 - C) Leaving crops in the field
 - D) Selling before harvesting
- 26.** One major cause of soil pollution is:
- A) Dumping plastic waste in farms
 - B) Using organic fertilizers
 - C) Practicing crop rotation
 - D) Planting more trees
- 27.** A water retention structure in farming is:
- A) Farm pond
 - B) Open road
 - C) Empty basket
 - D) Brick wall
- 28.** Growing trees helps in:
- A) Improving soil fertility
 - B) Destroying biodiversity
 - C) Increasing erosion
 - D) Increasing air pollution
- 29.** The best way to prepare planting sites is:
- A) Clearing and leveling
 - B) Leaving it rocky
 - C) Removing soil
 - D) Placing stones
- 30.** The best way to establish crops is:
- A) Planting at the right depth
 - B) Throwing seeds randomly
 - C) Keeping soil dry
 - D) Ignoring weeds

SECTION B:

31. Explain two ways of conserving resources in farming.

- a. _____
- b. _____

32. Give three methods of conserving animal feed.

- a. _____
- b. _____
- c. _____

33. State two ways of conserving leftover foods and their importance.

- a. _____
- b. _____

34. Explain two components of integrated farming and their role in conservation.

- a. _____
- b. _____

35. List three practices of organic gardening.

- a. _____
- b. _____
- c. _____

36. Describe two ways of preparing a storage structure before storing crop produce.

- a. _____
- b. _____

37. Name two products made from flour mixtures.

- a. _____
- b. _____

38. Explain the importance of soil conservation.

- a. _____
- b. _____
- c. _____

39. State two types of water harvesting methods and the structures used.

- a. _____
- b. _____

40. List three benefits of kitchen gardening.

- a. _____
- b. _____
- c. _____

41. Give two common crop pests and how they can be controlled.

- a. _____
- b. _____

42. Explain two ways of managing crop diseases.

- a. _____
- b. _____

43. Describe two qualities of a good egg.

- a. _____
- b. _____

44. State two ways of preserving food nutrients while cooking.

- a. _____
- b. _____

45. Explain how homemade soap can be made using natural materials.

- a. _____
- b. _____

SERIES 5

1. Grade 8 learners used different ICT tools to obtain information about inputs in agriculture.

State any **two** inputs they may have seen. **(2mks)**

2. State **three** challenges associated with use of innovative waterers in the community. **(3mks)**

3. Grade 9 prepared the following during conservation of forage. Use the picture to answer the questions that follow.

A



B



a.) Name the **two** methods of conserving hay above. **(2mks)** Method A

Method B

b.) State **three** advantages of conserving hay using method **A** compared to method **B**. **(3mks)**

c.) List down **four** materials required when making hay using method **A**. **(4mks)**

d.) Give **three** factors to consider when selecting the methods of conserving forage. (3mks)

4. Grade 7 learners from a certain school took pictures while planting trees as shown below.



a.) Give **two** ways the learners used to avoid soil pollution during the exercise above. (2mks)

b.) State **three** practices the learners might have used to take care of the trees planted. (3mks)

c.) Give **three** roles played by trees in soil and water conservation. (3mks)

5. Name **three** crops in which earthing up is required. (3mks)

6. The diagram below shows a certain poultry structure. Use it to answer the questions that follow.



a.) Identify the structure above.

(1mk)

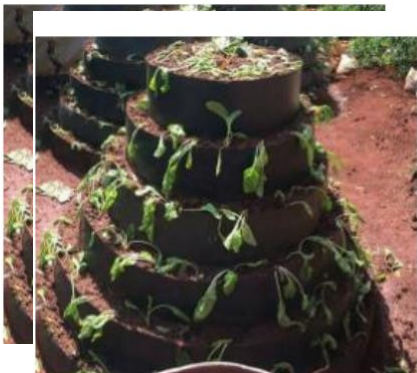
b.) State any four locally available materials that can be used when constructing the structure. (4mks)

c.) Grade 8 learners have been asked by their teacher to locate a suitable site where the structure above can be located. State **three** factors the learners should consider when siting the structure. (3mks)

d.) Give **three** routine management practices required when using the structure above in rearing poultry. (3mks)

7. The pictures below shows two different types of innovative kitchen gardens used by learners from Horizon Junior secondary school.

Garden A



Garden B



a.) Identify the **two** types of innovative kitchen gardens in pictures above. **(2mks)**

A _____
B _____

b.) State **three** roles played by the innovative kitchen gardens above. **(3mks)**

c.) State **three** indications learners can use to know the vegetables planted in the kitchen gardens are attacked by pests. **(3mks)**

8



This is a _____ used for _____ during _____ **(3mks)**

SERIES 6
SECTION A: 15 MARKS.

You are tasked to demonstrate knitting skills in class. Read and perform the activity below and answers questions that follow.

You will be provided with materials below.

1. Yarn (appropriate for beginners, e.g., medium- weight yarn)
2. Knitting needles (size appropriate for the yarn)
3. Scissors
4. Measuring tape or ruler
5. Yarn needle (for weaving in ends)
6. Pattern or instructions (for a simple project)

Instructions:

1. Cast on 30 stitches using a simple long-tail cast- on method. Ensure the stitches are even and not twisted.
2. Using the knit stitch (garter stitch), knit at least 20 rows. Pay attention to keeping an even tension throughout the knitting.
3. Alternate between knit and purl stitches to create a ribbing effect (e.g., 2x2 ribbing) for 5 rows. Ensure the ribbing is neat and consistent.
4. After completing your knitting, bind off your project using the basic bind-off technique. Ensure that the bind-off edge is neat and matches the rest of the project.
5. After binding off, cut the yarn and leave a small tail. Use the yarn needle to weave in any loose ends neatly insure that the ends are properly secured and go not show.

Questions

- 1.What is the correct method to cast on 30 stitches using the long-tail cast-on method? (2mks)
- 2.How can you ensure your cast-on stitches are even and not twisted? (2mks)

3. Describe the process of knitting a garter stitch. What should you focus on while knitting to maintain even tension throughout the rows? (3mks)
4. Explain how to create a 2 x 2 ribbing pattern using knit and purl stitches. What should be kept in mind to ensure the ribbing looks neat and consistent? (3mks)
5. Why is it important to bind off your knitting project properly? Describe the basic bind-off technique. (2mks)
6. What should you do to ensure a neat bind-off edge? (1mk)
7. After binding off, why is it important to weave in the loose ends, and how do you do it neatly? (2mks)
8. What tools and materials are required to complete this knitting task, and how do they contribute to the success of the project? (2mks)

2. **SECTION B: 15 MARKS.**

Construct an innovative animal waterer Materials provided:

1. Plastic bottles (various sizes)
2. Plastic tubing or straws
3. Small plastic containers or bowls
4. Hot glue gun or strong adhesive
5. Scissors or utility knife
6. Tape measure or ruler
7. Marker or pen for marking
8. Drill (with supervision)
9. Water (for testing the finished waterer)
10. Optional: Paint or markers (for decorating)

Instructions:

1. Before starting, draw a design of your animal waterer. Label the materials and describe how the waterer will function.
2. Identify the type of animal(s) this waterer is meant for (e.g., dogs, cats, or farm animals like chickens or goats). Explain why your design is suitable for the selected animal.
3. Using the provided materials, begin constructing the waterer. You may need to cut or modify the bottles or tubing to create a reservoir and a drinking mechanism.
4. Ensure that the water will flow easily and that the design is stable. The waterer should allow for easy access by the animals and be durable enough to hold water without leaking.
5. Once constructed, test the waterer by filling it with water and checking for any leaks or malfunctions. Ensure that the waterer works efficiently (water should flow or be dispensed as intended).
6. Add a decorative touch to the waterer. Use paint, markers, or other materials to personalize the design, making it visually appealing (optional but encouraged for creativity).
7. After completing the waterer, answer the following questions

Questions

1. How did you design the waterer and what is its intended function?
2. Which animal is your waterer meant for and why is your design suitable for this animal?
3. What materials did you use to construct the waterer and how did you modify them to fit your design?
4. How did you ensure the water flows easily from the reservoir to the drinking mechanism?
5. After testing, did the waterer hold water without leaking? If not, what changes did you make to fix the leaks?
6. How did you ensure that the waterer allows the animal to drink comfortably?
7. Was the waterer durable enough to hold water without collapsing or breaking? Explain why or why not.
8. What adjustments or improvements did you make during the construction process to enhance its functionality or appearance?

SERIES 7

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.)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



Identify the malnutrition disease. 2 markS

SERIES 8

PAPER 1

Section A: Multiple Choice Questions (1 mark each)

1. What is the main purpose of crop rotation in agriculture?

- A) To reduce soil erosion
- B) To increase the soil's fertility
- C) To control pests and diseases
- D) All of the above

2. Which of the following is a source of vitamin A?

- A) Meat
- B) Carrots
- C) Fish
- D) Whole grains

3. What is the process by which plants make their own food using sunlight, water, and carbon dioxide?

- A) Respiration
- B) Germination
- C) Photosynthesis
- D) Fermentation

4. Which of the following is a staple crop grown in Kenya?

- A) Wheat
- B) Rice
- C) Maize
- D) Cassava

5. What is the main role of proteins in the human body?

- A) Providing energy
- B) Building and repairing tissues
- C) Regulating body temperature
- D) Supporting immune function

6. Which of these is a method of organic farming?

- A) Using chemical pesticides
- B) Crop monoculture
- C) Use of synthetic fertilizers
- D) Use of natural fertilizers like compost

7. Which nutrient is most essential for the growth and development of bones and teeth?

- A) Protein
- B) Carbohydrates
- C) Vitamin D
- D) Calcium

8. What is the best method for preserving food in a cold climate?

- A) Freezing
- B) Canning
- C) Drying
- D) Smoking

9. Which of the following is a function of carbohydrates in the human body?

- A) Build and repair tissues
- B) Provide long-term energy
- C) Provide short-term energy
- D) Regulate body processes

10. Which is the largest source of dietary energy for humans?

- A) Proteins
- B) Fats
- C) Carbohydrates
- D) Minerals

Section B: (2 marks each)

- 11. Define agriculture and explain its importance in food production and economic development.
- 12. Explain how soil erosion can affect crop yields and suggest methods of preventing it.
- 13. List the five major food groups and provide two examples of foods from each group.
- 14. Discuss the impact of poor nutrition on child development.
- 15. Describe the role of water in the human body and the recommended daily water intake for an average adult.

Section C: (5 marks each)

- 16. Explain the process of photosynthesis in detail. Include the role of sunlight, water, and carbon dioxide.
- 17. Discuss the importance of sustainable farming practices and their role in ensuring food security for future generations.
- 18. Describe the effects of malnutrition on different age groups, focusing on children, adolescents, and adults.
- 19. Identify common pests and diseases affecting crops and explain how they can be controlled using both chemical and organic methods.
- 20. Explain how climate change can affect agriculture and what steps can be taken to mitigate these effects.

SERIES 8

PAPER 2

GRADE 9 KJSEA AGRICULTURE AND NUTRITION PROJECT OUTLINE

1. Title of the Project:

- *"The Role of Agriculture in Promoting Good Nutrition in Kenya"*

2. Introduction:

- **Purpose of the Project:** Explain the goal of your project, which could be exploring how agriculture impacts nutrition in Kenya, particularly focusing on local farming practices and the availability of nutritious food.
- **Importance of the Topic:** Discuss why agriculture and nutrition are important to the health and well-being of the population, especially in Kenya.

3. Research Objectives:

- To understand the relationship between agriculture and nutrition in Kenya.
- To identify locally grown crops and their nutritional benefits.
- To examine how sustainable farming practices can improve food security and nutrition.
- To explore the role of livestock farming in providing essential nutrients.

4. Methodology:

- **Data Collection:** Describe how you will gather information (e.g., interviews with local farmers, surveys in your community or school, library research, or online sources).
- **Types of Data:** Qualitative data (e.g., farmers' experiences) and quantitative data (e.g., nutritional content of crops).

5. Literature Review:

- **Agriculture in Kenya:** Discuss the current state of agriculture in Kenya, highlighting common crops and livestock raised in various regions.
- **Nutritional Challenges:** Mention some common nutritional challenges faced by people in Kenya, like malnutrition and micronutrient deficiencies.
- **Sustainable Farming and Nutrition:** Review how sustainable farming methods (organic farming, agroforestry) contribute to improving nutrition.

6. Data Analysis and Results:

- **Crop Nutrition:** Present findings about the nutritional value of crops like millet, sorghum, and sweet potatoes.
- **Role of Livestock:** Show how livestock (e.g., milk, eggs, meat) contributes essential proteins and vitamins to the diet.
- **Sustainable Practices:** Explain how sustainable practices, such as crop rotation or the use of natural fertilizers, can help maintain soil health and produce nutrient-dense food.

7. Discussion:

- Discuss how the integration of agriculture into daily nutrition practices can help combat hunger, improve health, and support economic development.
- Analyze the impact of locally grown foods versus imported foods in terms of both nutrition and cost.

8. Conclusion:

- **Summary:** Briefly summarize the key findings of your research.
- **Recommendations:** Offer recommendations on how Kenya can improve nutrition through agriculture (e.g., promoting local farming, introducing nutrition education programs).
- **Final Thoughts:** Reflect on how agriculture can contribute to the nation's health, focusing on the importance of sustainable practices.

9. References:

- Cite all sources of information you used for your project, including books, articles, interviews, and websites.

10. Presentation:

- Prepare a PowerPoint/Microsoft PowerPoint or poster to present your findings.
- Include visuals such as photos of crops, charts showing nutritional values, and diagrams of sustainable farming practices.

Tips for the Project:

- **Be clear and concise** in presenting your findings.
- **Use visuals** (e.g., pictures of local crops, food pyramids, charts) to make your project more engaging.
- **Use local examples** and data that reflect the agricultural practices in Kenya.
- **Ensure accuracy** when presenting nutritional information, especially if using data from books or online resources.

Section A: (30 Marks)

1. Which of the following methods can help prevent soil erosion?



- A) Cutting down all trees
 - B) Contour farming
 - C) Overgrazing
 - D) Burning crop residues
2. Which practice improves soil fertility naturally?
- A) Applying compost manure
 - B) Using excess chemical fertilizers
 - C) Removing all vegetation
 - D) Burning all crop residues
3. A farmer wants to conserve water for irrigation during the dry season. What should they do?
- A) Use sprinklers in the rainy season
 - B) Construct a water tank
 - C) Let water flow freely on the farm
 - D) Drain all water away
4. Which of the following food preservation methods removes moisture from food?
- A) Refrigeration B) Drying
 - C) Freezing D) Boiling
5. What is the best way to store leftover cooked food?
- A) Leave it uncovered in the kitchen
 - B) Keep it in a warm place overnight
 - C) Store it in a clean, covered container in the fridge
 - D) Mix it with fresh food immediately
6. What is the importance of mulching in farming?
- A) Prevents soil from drying out

- B) Encourages weeds to grow
 - C) Increases soil erosion
 - D) Blocks plant roots from growing
7. Which of the following crops is best suited for kitchen gardening?
- A) Maize
 - B) Cabbage
 - C) Coffee
 - D) Sugarcane
8. What is the main purpose of agroforestry?
- A) Destroying trees to create more farmland
 - B) Combining tree planting with agriculture
 - C) Clearing forests for farming
 - D) Removing all vegetation
9. What is the best way to prevent contamination when handling food?
- A) Washing hands before cooking
 - B) Storing cooked and raw food together
 - C) Leaving food uncovered
 - D) Using dirty water to cook
10. A farmer wants to feed chickens a balanced diet. Which of the following is a good source of proteins?
- A) Maize bran
 - B) Crushed eggshells
 - C) Fish meal
 - D) Sand
11. Which farming practice prevents overgrazing?
- A) Allowing livestock to graze anywhere
 - B) Practicing rotational grazing
 - C) Overfeeding animals
 - D) Keeping too many animals in a small space
12. What is the role of nitrogen in plant growth?
- A) Improves root development
 - B) Promotes leaf growth and greenness
 - C) Strengthens plant stems
 - D) Helps in fruit formation
13. Which part of an egg protects the developing chick?
- A) Eggshell
 - B) Egg yolk

C) Egg white

D) Chalaza

14. Which method is used to hatch eggs artificially?

A) Natural incubation

B) Using an incubator

C) Sun-drying eggs

D) Leaving eggs in a dark room

15. Which of the following is the most effective way of preserving milk?

A) Drying it in the sun

B) Keeping it in an airtight container

C) Boiling and storing in the fridge

D) Mixing with water

16. A good kitchen garden should be located:

A) Far from the home

B) Near the homestead for easy access

C) In a rocky area

D) Where there is no sunlight

17. What is the best reason for sorting clothes before washing?

A) To save time

B) To wash heavy and light clothes together

C) To separate colored and white clothes

D) To use more detergent

18. A farmer notices yellowing leaves in crops. This could be due to a deficiency of:



19. The best method of maintaining hygiene in a dairy farm is:

A) Washing animal sheds regularly

B) Letting animals roam freely

C) Feeding cows dirty water

D) Milking cows with dirty hands

20. Which is an example of a perishable food?
- A) Dry maize B) Fresh milk
 - C) Beans D) Rice
21. What is the best way to prevent food spoilage?
- A) Cooking food every day
 - B) Using preservation methods such as refrigeration and drying
 - C) Buying food in bulk and storing it in the open
 - D) Mixing fresh food with spoilt food
22. What is the most effective way of preventing post-harvest losses in maize?
- A) Storing maize when it is wet
 - B) Drying maize properly before storage
 - C) Keeping maize on the floor
 - D) Leaving maize in the field for long
23. What is the best material for making kitchen garden containers?
- A) Used cooking oil tins
 - B) Cement bags
 - C) Old tires and sacks
 - D) Iron sheets
24. Why is it important to remove weeds from a farm?
- A) Weeds provide food for animals
 - B) Weeds compete with crops for nutrients and water
 - C) Weeds increase soil fertility
 - D) Weeds make the farm look good
25. Why is it important to turn compost manure regularly?
- A) To mix organic materials well
 - B) To stop decomposition
 - C) To reduce the manure's nutrients
 - D) To dry the manure quickly
26. Why should eggs be stored with the pointed end facing down?
- A) To keep the yolk centered
 - B) To increase the egg's size
 - C) To make the shell stronger
 - D) To make eggs last longer
27. A farmer wants to improve milk production in dairy cows. What should he do?
- A) Provide clean water and a balanced diet
 - B) Reduce the number of meals per day
 - C) Keep cows in a dirty shed
 - D) Milk the cow only once a day

28. Which of the following is an advantage of organic manure?
- A) It kills all soil organisms
 - B) It releases nutrients slowly and improves soil structure
 - C) It is very expensive to make
 - D) It does not help plants grow
29. Which of the following is an effective way of reducing food waste?
- A) Buying excess food and throwing away what is not needed
 - B) Cooking only the needed amount of food
 - C) Leaving food to spoil before eating it
 - D) Throwing away leftover food
30. What is the best way to clean leafy vegetables before cooking?
- A) Wash in clean water before cutting
 - B) Cut first and then wash
 - C) Use dirty water
 - D) Mix with other foods before washing
31. Jane noticed that her farm soil was being washed away during heavy rains. Which of the following methods would BEST help her prevent soil erosion?
- A) Cutting down all trees
 - B) Leaving the land bare
 - C) Practicing contour farming
 - D) Overgrazing
32. A farmer wants to store rainwater for use during the dry season. The best method for this is:
- A) Building terraces
 - B) Constructing a water tank
 - C) Digging up farmland
 - D) Spraying pesticides
33. A kitchen garden is beneficial because it:
- A) Reduces food expenses and provides fresh vegetables
 - B) Wastes land and increases pests
 - C) Requires large amounts of chemical fertilizers
 - D) Increases soil erosion
34. A chicken farmer notices that some of his birds are weak and dying. What should he do FIRST?
- A) Sell all the birds
 - B) Give them dirty water
 - C) Take them to a veterinary officer
 - D) Mix them with wild birds

35. Which of the following foods is BEST cooked using the steaming method?
- A) Fried chicken B) Ugali
 - C) Vegetables D) Chapati
36. A family decides to preserve fish for future use. The best method for this is:
- A) Boiling it every day
 - B) Storing it in an open place
 - C) Drying or smoking it
 - D) Mixing it with other foods
37. Peter wants to improve the fertility of his farm without using chemical fertilizers. Which of the following methods should he use?
- A) Adding compost manure
 - B) Overusing synthetic fertilizers
 - C) Burning all plant residues
 - D) Removing all vegetation cover
38. What is the main purpose of agroforestry?
- A) Cutting down all trees to create more farmland
 - B) Combining tree planting with agriculture to improve the environment
 - C) Preventing farmers from growing crops
 - D) Reducing tree cover in farms
39. Susan wants to improve food safety in her home. Which of the following practices will BEST help her?
- A) Storing cooked and raw food together
 - B) Washing hands before handling food
 - C) Leaving food uncovered
 - D) Using dirty water to cook
40. What is the role of mulching in a farm?
- A) Increases soil erosion
 - B) Helps retain soil moisture and prevent weeds
 - C) Increases pests in the soil
 - D) Dries out the soil quickly

Section B: (40 Marks)

(Answer all questions in the spaces provided.)

41. (a) During a school project, learners observed that some farms experienced a lot of soil erosion while others did not. What could be two possible reasons for this difference? (2 marks)

- i. _____
- ii. _____

(b) Suggest two ways in which farmers can prevent soil erosion. (2 marks)

- i. _____
- ii. _____

42. (a) A farmer in a dry area wants to ensure that he has enough water for irrigation. Name two water harvesting methods he can use. (2 marks)

- iii. _____
- iv. _____

(b) Explain one way in which mulching helps in water conservation. (2 marks)

43. (a) Define poultry rearing. (2 marks)

(b) List two signs of a sick chicken. (2 marks)

- i. _____
- ii. _____

44. (a) Why is it important to preserve food? (2 marks)

- i. _____
- ii. _____

(b) List two traditional food preservation methods. (2 marks)

- i. _____
- ii. _____

45. (a) A group of students visited a farm where different crops were grown alongside trees. What type of farming is this? (2 marks)

(b) Give two benefits of this farming method. (2 marks)

- i. _____
- ii. _____

46. (a) Why is it important to sort clothes before washing? (2 marks)

(b) Mention two ways of maintaining food hygiene in the kitchen. (2 marks)

- i. _____
- ii. _____

47. (a) Name two vegetables that can be grown in a kitchen garden. (2 marks)

- i. _____
- ii. _____

(b) Explain one advantage of practicing kitchen gardening. (2 marks)

48. (a) Mention two ways of maintaining hygiene in a dairy farm. (2 marks)

- i. _____
- ii. _____

(b) Give two causes of soil pollution. (2 marks)

- i. _____
- ii. _____

SECTION A: MULTIPLE CHOICE QUESTIONS (30 MARKS)

(Choose the correct answer and write it on a separate answer sheet provided)

- 1. Which of the following is NOT a method of soil erosion control?**
A) Mulching B) Overgrazing
C) Terracing D) Contour farming
- 2. The main purpose of water harvesting is to:**
A) Increase soil erosion
B) Improve water storage and availability
C) Destroy crops
D) Reduce crop yield
- 3. Which structure is best suited for storing harvested water?**
A) Open ditches B) Sand dams
C) Overhead bridges D) Roads
- 4. Kitchen gardening is best practiced to:**
A) Grow large-scale crops for sale
B) Waste kitchen resources
C) Provide fresh vegetables for home use
D) Increase soil pollution
- 5. A poultry fold is mainly used for:**
A) Providing a safe place for poultry
B) Letting poultry roam freely
C) Reducing poultry productivity
D) Exposing birds to predators
- 6. A common pest affecting crops is:**
A) Chicken B) Aphids
C) Earthworms D) Goats
- 7. Which method is commonly used to preserve fish?**
A) Drying B) Boiling
C) Baking D) Peeling
- 8. Which of the following is NOT a method of controlling soil pollution?**
A) Proper waste disposal
B) Using excessive pesticides
C) Practicing crop rotation
D) Composting organic waste
- 9. Which water retention structure helps improve soil moisture?**
A) Windbreaks
B) Trenches
C) Firewood stacks
D) Paths
- 10. Growing trees helps in:**
A) Reducing soil erosion
B) Increasing deforestation
C) Depleting nutrients
D) Reducing biodiversity
- 11. Agroforestry refers to:**
A) The cutting down of trees
B) Combining tree planting with agriculture

- C) Preventing food conservation
- D) Reducing biodiversity
- 12. One of the best ways to maintain hygiene in poultry rearing is:**
 - A) Cleaning the poultry house regularly
 - B) Overcrowding the poultry house
 - C) Keeping dirty water in the house
 - D) Allowing pests to breed
- 13. Value addition to crops involves:**
 - A) Improving crop quality for better sales
 - B) Reducing crop prices
 - C) Destroying harvested crops
 - D) Selling crops immediately after harvesting
- 14. One of the ingredients used in making homemade soap is:**
 - A) Cooking oil B) Soil
 - C) Charcoal D) Plastic
- 15. Steaming as a method of cooking helps to:**
 - A) Retain nutrients
 - B) Increase food wastage
 - C) Make food hard
 - D) Reduce hygiene levels
- 16. The best method of cooking food while camping is:**
 - A) Roasting B) Frying
 - C) Microwaving D) Steaming
- 17. One of the benefits of frying food is that it:**
 - A) Improves taste and texture
 - B) Makes food lose nutrients
 - C) Reduces food quality
 - D) Causes food to spoil faster
- 18. One of the essential laundry practices is:**
 - A) Sorting clothes before washing
 - B) Mixing all clothes regardless of color
 - C) Using dirty water to wash clothes
 - D) Drying clothes in a dark room
- 19. Honey is best preserved by:**
 - A) Keeping it in a dry and airtight container
 - B) Storing it in an open container
 - C) Mixing it with soil
 - D) Freezing it immediately
- 20. Which of the following is NOT a method of preserving food?**
 - A) Refrigeration B) Drying
 - C) Burning D) Salting
- 21. The best way to store eggs for a long time is:**
 - A) In a cool, dry place
 - B) Under direct sunlight
 - C) In a hot oven
 - D) Mixed with soil
- 22. Overuse of chemical fertilizers leads to:**
 - A) Soil pollution
 - B) Increased soil fertility
 - C) Water purification
 - D) Faster seed germination

- 23. One of the ways to prevent poultry diseases is by:**
A) Vaccinating birds on time
B) Allowing poultry to mix with wild birds
C) Feeding them contaminated food
D) Keeping the poultry house dirty
- 24. An example of an agroforestry tree is:**
A) Gravillea
B) Banana
C) Maize
D) Cabbage
- 25. Water harvesting helps farmers by:**
A) Storing water for future use
B) Wasting rainwater
C) Reducing soil fertility
D) Destroying plants
- 26. A good poultry house should be:**
A) Well-ventilated and clean
B) Overcrowded and dirty
C) Built with weak materials
D) Too dark for birds
- 27. Which of the following is a method of conserving food nutrients?**
A) Cooking with excess water and discarding it
B) Overcooking vegetables
C) Using fresh ingredients and minimal water
D) Peeling vegetables deeply
- 28. One of the best ways to reduce food wastage is:**
A) Proper food preservation methods
B) Cooking excess food that will be thrown away
C) Storing food in open places
D) Leaving food uncovered
- 29. Which of the following crops benefits most from agroforestry?**
A) Coffee B) Plastic crops
C) Glass trees D) Synthetic plants
- 30. The best way to control pests in a farm is by:**
A) Using integrated pest management methods
B) Allowing pests to multiply
C) Avoiding pest control methods
D) Overusing pesticide

SECTION B: STRUCTURED QUESTIONS (40 MARKS)

(Answer all questions in the spaces provided.)

31. Name two types of soil erosion. (2 marks)

- a. _____
b. _____

32. State two ways of conserving soil. (4 marks)

- a. _____
b. _____

33. Give three examples of water harvesting methods. (3 marks)

- a. _____
- b. _____
- c. _____

34. List three advantages of kitchen gardening. (3 marks)



- a. _____
- b. _____
- c. _____

35. (a)Define poultry rearing. (2 marks)

(b) Mention two types of poultry houses. (2 marks)

- a. _____
- b. _____

36. State two methods of preserving fish and poultry carcass. (4 marks)

Preservation of fish	Preservation of poultry carcass

37. Outline two causes of soil pollution. (4 marks)

- a. _____.
- b. _____.

38. Explain two benefits of agroforestry. (4 marks)

- a. _____.

b. _____.

39. Name two ingredients used in making homemade soap. (2 marks)

a. _____.

b. _____.

40. Give two advantages of steaming food. (2 marks)

a. _____.

b. _____.

41. List three ways of maintaining hygiene in rearing animals. (3 marks)

a. _____.

b. _____.

c. _____.

SERIES 11

Answer ALL the Questions in the spaces provided (50mks)

1. Mr. Oloo is visiting a friend Njeri who established a kitchen garden in Kisumu. Oloo has asked

Njeri how kitchen gardening contributes to food nutrition security.

- a) Give **three** advices you think Njeri would tell Mr. Oloo

(3mks)

.....
...

- b) Njeri shows Oloo he multi- storey kitchen garden. Identify any **three** materials that can be used

to a multi-storey kitchen garden.

(3mks)

.....
...

- c) What are some of the **three** crops Njeri may have planted in her multi-storey kitchen garden

(3mks)

.....
.....

2. Your Agriculture teacher has appointed you to lead your classmates in making trash lines in the school garden,

- a) Name any **two** materials that you will need to establish the trash lines.

(2mks)

.....
...

- b) Explain how you will establish the trash lines (4mks)

3. (a) Give **three** examples of the agroforestry trees you can select to plant in your farm at home. (3mks)

.....
.....
.....
.....

- (b) State **two** characteristics of Agroforestry trees.

(2mks)

.....
.....
.....

4. (a) State **three** factors to consider when choosing a Seam.

(3mks)

.....
.....
.....
.....

.....
(b) Write the meaning of the following terms

(2mks)

i. Seam Line

ii.
.....

iii. Seam Turnings

.....
.....

5. List **four** methods of neatening seams

(4mks)

.....
.....
.....
.....
.....

6. What is the name given to the process of collecting rain water for usage.

(1mks)

7. Write the meaning of the following.

(2mks)

i. Crop pest

.....
.....

ii. Crop diseases

.....
.....

8. Explain how the following practices help in pest control.

(2mks)

i. Weed control

.....
.....

ii. Tilling land before sowing

.....
.....

9. Grade eight learners at Kanyamedha Junior School Identified cutworms in their vegetable crop garden as shown below.



- a) What time of the day did learners most likely observe the pest? **(1mks)**
.....
.....
- b) State any two damages the pest caused to the crops. **(2mks)**
.....
.....
- c) Write three advices you would give the learners to control the pest. **(3mks)**
.....
.....
.....
.....

10. (a) What is a poultry fold? **(1mks)**
.....
.....

(b) Give three advantages of rearing poultry in a fold. **(3mks)**
.....
.....
.....
.....
.....
.....
.....

- (c) Give the importance of the following in rearing a poultry **(3mks)****
- i. Moving the fold
.....
.....
 - ii. Sanitation
.....
.....
 - iii. Protection
.....
.....

11. Outline four reasons why vegetable crop pests should be controlled. **(4mks)**
.....

SERIES 12

1. The practice of maintaining a healthy environment that sustains plants, water, land and air in good condition is referred to as (2 mks)
2. Identify 2 biotic major components of the environment. (2 mks)
 - (a).....
 - (b).....
3. Identify 2 main causes of soil pollution. (2 mks)
 - (a).....
 - (b).....
 - (c).....
4. The level of coarseness or fineness of a planting site is known as (1 mk)
5. Identify the 3 main types of soil tilths. (3 mks)
 - (a).....
 - (b).....
 - (c).....
6. Identify 2 main ways of reusing plastic waste in the farm. (2 mks)
 - (a).....
 - (b).....
7. Identify the structure below used to control surface runoff . (2 mks)



8. The farming practice where disturbance of the soil is kept at the minimum is known as (2 mks)
9. Identify 2 main crop production practices in a farm.(2 mks)
 - (a).....
 - (b).....
10. Identify the planting materials in the pictures below. (4 mks)



11. Identify the 3 components in an agroforestry farm. (3 mks)
 - (a).....
 - (b).....
 - (c).....
12. Identify 3 crop management practices on established crops. (3 mks)
 - (a).....
 - (b).....
 - (c).....
13. What makes it impossible to use herbicides in a farm where maize and beans have been planted together?

14. Highlight 3 ways of handling animals humanely. (3 mks)
(a)
(b)
(c)
15. Identify 2 ways you can communicate with animals (2 mks)
(a)
(b)
16. The farming practice where the farmer grows crops during dry period is referred to as
..... (1mk)
17. Identify 3 advantages of off season cropping. (3mks)
(a)
(b)
(c)
18. Discuss 3 materials used in container gardening. (3 mks)
(a)
(b)
(c)
19. Identify 2 ways of preparing animal products. (2 mks)
(a)
(b)
20. Identify 2 factors to consider when grading eggs. (2 mks)
(a)
(b)
21. The range of activities done to improve quality of crop produce and attract high market value is known as
..... (2 mks)
22. Discuss how drying is identified as value addition to some crops. (2 mks)
(a)
(b)
23. List down two safety measures while chrotcheting. (2mks)
(a)
(b)
24. Identify two factors to consider while buying small kitchen tools and equipment. (2mks)
(a)
(b)
25. State two career opportunities associated with Homescience. (2mks)
(a)
(c)
26. State two ways of preparing clothes before washing. (2mks)
(a)
(b)
27. State 3 kitchen tools that can be improvised. (3mk)
(a).....
(b).....

29. Name three foods that can be preserved by drying. (3mks)
(a).....
(b).....
(c).....
30. State two desirable properties of silk. (2 mks)
(a).....
(b)
31. Eric went to a shop to buy a silk shirt. Which physical identification test can be used to identify silk garments? (3mk)
.....
32. State two factors to consider when choosing seams in cloth making. (2mks)
(a).....
(b)
33. Name three parts of a sewing machine. (3mks)
(a).....
(b).....
(c).....
34. State two factors to consider when buying a sewing machine. (4mks)
(a).....
(b).....
35. State three methods of cooking different types of food. (3mks)
(a).....
(b).....
(c).....
36. Peter has just harvested green maize. Describe how he can grill the green maize for his family. (2mks)
(a)
(b)
37. Grade 7 learners were asked to prepare charts on safety precautions to take when cooking. Write the safety precautions they should include in the chart for each of the following methods of cooking. (6mks)
- Grilling -
- Roasting -
- Steaming -
38. State three special treatment in laundry work. (3 mks)
(a)
(b)
(c)
39. Write two agents required for special treatment in laundry work. (2mks)
(a)
(b)
40. Outline two guidelines for nutrient conservation during cooking of food. (4mks)
(a)

SERIES 13

- 1. The practice of maintaining a healthy environment that sustains plants, water, land and air in good condition is referred to as (2 mks)
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-
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-
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(a)
(b)

JUNIOR SCHOOL EDUCATION ASSESSMENT

GRADE 8

TERM ONE 2025 OPENER

NAME:

SCHOOL:

ASSESSMENT NUMBER:

SIGNATURE:**DATE:**.....

AGRICULTURE AND NUTRITION

ASSESSMENT RUBRICS

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

1. Some farmers prefer using repellent crops instead of mothballs to control small wild animals such as rodents that destroy crops.



(a) Name two repellent crops that can be used to keep off small wild animals.

(2 marks)

.....
.....

(b) Why is it better to use repellent crops instead of mothballs?

(2 marks)

.....
.....

2. During a farm visit, Grade 7 learners realised that newly planted crops on the farm were very close to each other.
 (a) What management practice should they advise the farmer to carry out? (1 mark)

 (b) Give two importance of the management practice in (a) above. (1 mark)

 3. Jessica is a farmer with young vegetable seedlings on her farm. One afternoon, rain with hailstones fell and destroyed her young seedlings. What would have been the appropriate method of protecting the seedlings from hailstones? (1 mark)

 4. The picture below shows a farmer using machinery to apply herbicides and pesticides on his farm.



Explain why the excessive use of pesticides and herbicides leads to soil pollution. (2 marks)

.....

5. Grade 7 learners used locally available materials to build the following waste disposal centre near their school farm to help dispose wastes.



Apart from building waste disposal centres, name three other ways of promoting safe farming practices. (2 marks)

.....

6. The picture below shows a learner performing a certain practice on growing crops.



(a) Identify the method of watering shown in the picture. (1 mark)

(b) What is the importance of the above practice to growing crops? (1 mark)

(c) State one advantage of using the above method in watering crops. (1 mark)

7. What do you understand by water retention structures? (1 mark)

8. Identify the water retention structures that match each of the following descriptions. (3 marks)

	Description	Water retention structure
(a)	Large depressions on the earth's surface that hold water.	
(b)	Holes dug on the ground to hold water longer after rains.	
(c)	Narrow trenches dug to hold runoff water and hold it until it seeps into the ground	

9. The picture below shows a chicken waterer.



(a) What role does the waterer play in rearing chicken at home? (1 mark)

(b) Apart from cleaning animal waterers, name two other hygienic practices that we should carry out when rearing domestic animals. (2 marks)

(c) Give two reasons why it is important to carry out hygienic practices when rearing domestic animals. (2 marks)

10. Ali has a few trees growing on one of his farms. His son advised him to make bee hives in some of the trees and then start keeping bees. Give two ways the bees would be beneficial to him.

(2 marks)

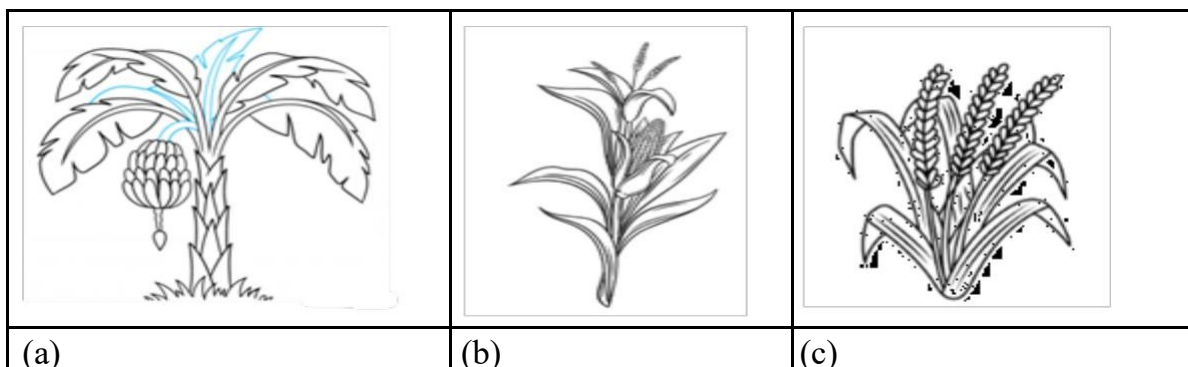
11. After a few weeks, Simon collected honeycombs from his beehives and wanted to process them for sale. Below are steps that can be followed to process raw honey from the combs. The steps as outlined in column A, are not in the correct order. Rewrite the same steps in the correct order in column B. (5 marks)

	Column A	Column B
(i)	Use wooden sticks to press and strain honey.	
(ii)	Skim off scum from the honey.	
(iii)	Clean hands, wear gloves and crush the honeycombs.	
(iv)	Suspend muslin cloth above the bucket.	
(v)	Place honeycombs on a muslin cloth over a bucket.	

12. Give two reasons why it is important to process honey before sale. (2 marks)

.....

13. Most crops are established using either seeds or vegetative materials. Identify the planting materials for each of the following: (3 marks)



14. Bokello planted millet seeds in a section of his farm which has soil with fine tilth.

(a) What makes the millet seeds suitable for planting in fine tilth? (1 mark)

.....

(b) Give two other examples of planting materials that can be established on the same soil tilth. (2 marks)

.....

15. In sorting and grading eggs, one of the factors to consider is the shell quality.

(a) Name two aspects that will determine if the shell is of good quality. (2 marks)

.....

(b) Apart from shell quality, name three other factors to consider when sorting and grading eggs. (3 marks)

(c) What is the importance of grading and sorting goods before sale? (2 marks)

.....

16. Weeding is one of the agricultural practices performed to improve the growth, development and yield of crops.

(a) Name three physical methods of weeding. (3 marks)

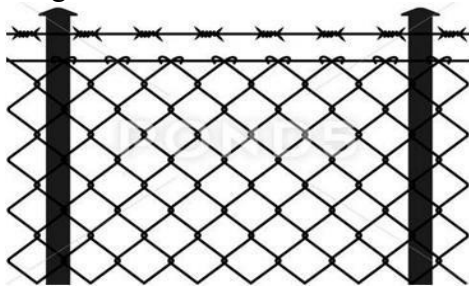
.....

(b) Apart from weeding, name two other agricultural practices performed to improve the growth, development and yield of crops. (2 marks)

.....

SERIES 15

1. Maria was learning on causes of soil pollution; she learnt that excessive use of chemical fertilizer can make the soil acidic and affect soil composition. Name two farming practices that increase soil acidity and affect soil composition. [2 marks]
(a)
(b)
2. Splash erosion occurs where soil particles are removed from the ground by rain drops leaving a small depression. Name two ways in which splash erosion can be controlled. [2 marks]
(a)
(b)
3. Seedbeds can be made in such a way that they help the soil to hold water for long. Name two seedbeds that conserve water. [2 marks]
(a)
(b)
4. The diagram below shows a method of keeping away wild and domestic animals in the farm.



The practice above is used in keeping off wild and domestic animals from destroying crops without harming them. (a) Name the practice above. [1 mark].....

(b) State two other practices that can be used the same way as the one above in controlling animals. [3 marks]

.....
.....

5. Deterrents have various importance in conserving wild animals. Discuss two importances of deterrents in conserving wild animals while carrying out farming activities. [4 marks]
(a)
(b)
6. Mzee Matano is a good farmer, who keeps small domestic animals in his farm. Small domestic animals have various functions. Highlight three importance of small domestic animals. [3 marks]
(a)
(b)
(c)
7. Fruits and vegetables preservation is very essential in our homes. What should we observe hygiene measures when preserving fruits and vegetables? [3 marks]
(a)
(b)
(c)

9. Study the picture below and answer the questions that follow.



(a) Name the food item above. [1 mark].....

(b) Describe the method of cooking used to cook the food item. [2 marks]

.....
.....

10. Grade 7 learners have done a practical on baking a cake. They want to store some of the cake and eat the following day. Give three ways on how they should store it. [3 marks]

- (a)
- (b)
- (c)

11. Grade 7 learners learnt that maintaining good hygiene is very essential in human beings' health. Outline 2 importance of maintaining good personal hygiene. [2 marks]

- (a)
- (b)

12. Lare learnt about types of special treatment in laundry. Name 3 types of special treatment in laundry work.

[3 marks]

- (a)
- (b)
- (c)

13. Tonny researched on what to do when carrying out special treatment in laundry work. Give 3 points we consider when carrying out stain removal as a type of special treatment in laundry work. [3 marks]

- (a)
- (b)
- (c)

14. John uses moisture beds when growing crops in his farm. Name 3 importance of moisture beds in growing crops.

[2

marks]

- (a)
- (b)
- (c)

- (a)
- (b)
- (c)

16. Grade 6 learners learnt on the importance of water conservation measures. Mention 2 importance of water conservation in farming. [2 marks]

- (a)
- (b)

17. Study the picture below and answer the question that follows.



Name the type of soil erosion above and how it can be controlled. [2 marks]

.....

18. Grade 7 learners learnt on preparation of a suitable site for planting legumes using organic manure. Highlight the procedure that they will use in the preparation of a suitable site for planting legumes using organic manure.

[4 marks]

- (a)
- (b)
- (c)

SERIES 16

Answer ALL the Questions in the spaces provided (50mks)

1. What is the meaning of soil pollution [2mks]

.....
.....

2. State two causes of soil pollution [2mks]

.....
.....

3. Name two water retention structure [2mks]

.....
.....

4. Name two crops which can be established in water retention structures [2mks]

.....
.....

5. Highlight two ways of conserving vitamins and mineral salts in vegetation [2mks]

.....
.....

6. Define agroforestry [2mks]

.....
.....

7. Name three importance of trees in the environment [3mks]

.....
.....
.....

8. Differentiate between pruning and grafting in crop management (4mks)

.....
.....

9. State three animal products you know (3mks)

.....
.....

10. Write the meaning of the following terms (3mks)

i. Home Science:

.....
.....

ii. Nutrients:

.....

.....

iii. Nutritionist :.....

.....

11. Explain the following terms as used in crop production

a) Afforestation:.....

.....[1mks]

b) Reafforestation:.....

.....[1mks]

c) Deforestation:.....

.....[1mks]

12. State any three nursery management practices you know (3mks)

.....

.....

13. Name three characteristics of Agroforest Trees (3mks)

.....

.....

.....

14. Give two examples of Agroforestry trees (2mks)

.....

.....

15. List three examples of vegetative planting materials (3mks)

.....

.....

.....

16. Differentiate between thinning and gapping (2mks)

.....

.....

17. Name three types of tilth when preparing land (3mks)

.....

.....

.....

18. List any three career opportunities related to Home Science. (3mks)

.....

.....

.....

19. Highlight three methods of weed control in crop production (3mks)

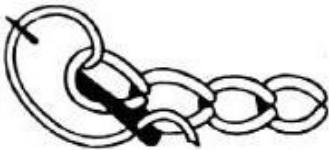
SERIES 17

1. Grade 7 learners observed the type of soil erosion shown below during a nature walk.

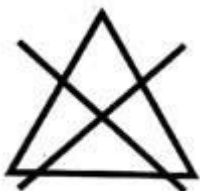


- a) Identify the type of soil erosion they observed.(1mk)
 - b) How can this type of soil erosion be controlled?(1mk)
2. A teacher asked his learners to list two types of moisture beds that can be prepared in a seed bed to conserve moisture in the soil. What answers did the learners give?(2mks)
3. Grade 6 learners planted legume crops in their school garden. List four examples of legumes they were likely to plant.(4mks)
4. Grade 7 learners were asked to state the planting materials used to establish creepers. List three materials that they stated.(3mks)
5. State three routine practices for taking care of small domestic animals.(3mks)
6. A learner in grade 6 was asked to state the meaning of organic gardening. What answer did he give?(2mks)
7. Grade 6 learners established legumes on the school farm. List 5 gardening practices they carried out on the growing legumes under organic gardening.(5mks)
8. List four importance of innovative ornamental gardening.(4mks)

9. Grade 7 learners of Elimu school were asked to give the meaning of soil pollution. Give the answer they gave(2mks)
10. An agricultural extension officer visited grade 7 learners to teach them more about soil pollution. Identify three causes of soil pollution in farming that the officer explained to the learners. (3mks)
11. Describe the meaning of the following terms.
- a) Food :
 - b) Nutrition:
 - c) A balanced diet:
12. Grade 7 learners were asked by their teacher to list three nutritional deficiency diseases and their causes. What answers did they give?(6mks)
13. What is the importance of the following minerals in the body?(2mks)
- a).Iron
 - b) Iodine:
14. Grade 6 learners were asked to state four methods of preserving meat. List down four methods that they stated.(4mks)
15. Identify the stitch drawn below.(1mk)



16. An adolescent should practise healthy eating habits. Write three healthy eating habits for an adolescent.(3mks)
17. Musyoka bought a shirt with the label shown below. What does the label mean?(1mk)



SERIES 18

SECTION A:

ANSWER ALL QUESTIONS IN THUIS SECTION

1. Which of the following is an example of soil pollution?

- A. Planting trees on bare land
- B. Disposing plastics in the soil
- C. Applying compost manure
- D. Using mulching on crops

2. Which method helps in controlling plastic pollution?

- A. Burning plastic waste
- B. Burying plastic bottles
- C. Recycling and reusing plastics
- D. Dumping plastics in rivers





3. The practice of collecting and storing rainwater for use in dry periods is called:

- A. Irrigation
- B. Drainage
- C. Water harvesting
- D. Surface runoff

4. What is the main function of terraces in farming?

- A. To prevent soil erosion
- B. To plant trees
- C. To provide water for irrigation
- D. To grow crops

5. Which of the following is NOT a crop that grows in wetland areas?

			
Sugarcane	Rice	Maize	Arrowroots
A	B	C	D

6. The main benefit of conserving surface runoff is:

- A. To cause soil erosion
- B. To increase soil nutrients
- C. To prevent flooding and conserve water
- D. To encourage water wastage

7. The best way to clean vegetables before cooking is by:

- A. Washing after chopping
- B. Using excess water
- C. Washing before chopping
- D. Soaking them in water overnight

8. Why should we cook vegetables for a short time?

- A. To make them taste better
- B. To retain nutrients
- C. To make them softer
- D. To remove color

9. Which of the following is NOT a benefit of trees to farmers?



- A. Providing shade
- B. Producing oxygen
- C. Producing smoke
- D. Preventing soil erosion

10. The process of planting trees in an area where there was no forest before is called:

- A. Reforestation
- B. Afforestation
- C. Deforestation
- D. Agroforestry

11. Cutting down trees without replacing them is known as:

- A. Reforestation
- B. Deforestation
- C. Agroforestry
- D. Afforestation

12. Which of the following is a practice used in tree care?

- A. Pruning
- B. Overgrazing
- C. Burning forests
- D. Cutting all branches

13. The ability of soil to allow air and water movement is called:

- A. Soil texture
- B. Soil tilth
- C. Soil erosion
- D. Soil drainage

14. Which of the following is an example of poor soil tilth?

- A. Loose soil
- B. Well-aerated soil
- C. Compact soil
- D. Moist soil

15. Which of the following methods is used to prepare land before planting?

- A. Weeding
- B. Harrowing
- C. Spraying
- D. Mulching

16. Which of the following is NOT a planting material?

- A. Seeds
- B. Cuttings
- C. Fertilizer
- D. Tubers

17. What is the main purpose of thinning?

- A. To remove weak seedlings
- B. To increase weed growth
- C. To prevent soil erosion
- D. To stop crop growth

18. Which of the following is the best method to prevent soil pollution when weeding?

- A. Using herbicides
- B. Burning weeds
- C. Mulching
- D. Spraying pesticides

19. The process of curing harvested Irish potatoes involves:

- A. Storing them in cold water
- B. Covering them with dry grass
- C. Placing them under direct sunlight
- D. Washing them immediately

20. Which of the following crops also requires curing after harvesting?

- A. Maize
- B. Tomatoes
- C. Sweet potatoes
- D. Carrots

21. Which of the following factors is considered when grading eggs?

- A. Shell size
- B. Color of yolk
- C. Weight of the hen
- D. Type of feed used

22. Which of the following is a soil conservation method?

- A. Burning crops
- B. Overgrazing
- C. Using terraces
- D. Leaving land bare

23. What is the best way to store eggs?

- A. Under direct sunlight
- B. In a cool, dry place
- C. In hot water
- D. In a closed box

24. A farmer can get income from trees by:

- A. Selling timber
- B. Burning leaves
- C. Cutting branches
- D. Allowing overgrazing

25. Which of these practices leads to deforestation?

- A. Cutting down trees for charcoal
- B. Planting fruit trees
- C. Watering seedlings
- D. Mulching trees

26. Which of the following farm tools is used for breaking soil lumps?

- A. Rake
- B. Jembe
- C. Watering can
- D. Wheelbarrow

27. The process of adding organic and inorganic substances to the soil to improve fertility is called:

- A. Mulching
- B. Manuring
- C. Pruning
- D. Weeding

28. Which of the following is NOT an example of organic manure?

- A. Compost
- B. Green manure
- C. Artificial fertilizer
- D. Farmyard manure

29. The best time to water crops is:

- A. In the evening or early morning
- B. In the afternoon
- C. At noon
- D. Anytime of the day

30. Which of the following farming practices leads to soil erosion?

- A. Mulching
- B. Overgrazing
- C. Contour farming
- D. Crop rotation

31. The process of removing weeds from a farm is called:

- A. Watering
- B. Weeding
- C. Mulching
- D. Irrigation

32. Which type of soil retains the most water?

- A. Sandy soil
- B. Clay soil
- C. Loamy soil
- D. Rocky soil

33. Which type of crop is mainly grown to improve soil fertility?

- A. Legumes
- B. Cereals
- C. Tubers
- D. Cash crops

34. Which of the following is a method of controlling pests?

- A. Burning the farm
- B. Using pesticides
- C. Cutting trees
- D. Watering frequently

35. What is the main advantage of crop rotation?

- A. Increases soil fertility
- B. Reduces plant growth
- C. Increases weed infestation
- D. Causes soil erosion

36. The major symptom of a nutrient-deficient plant is:

- A. Green leaves
- B. Yellowing of leaves
- C. Rapid growth
- D. Increased fruit production

37. The process of loosening soil before planting is called:

- A. Weeding
- B. Harrowing
- C. Watering
- D. Fertilization

38. Which of the following methods prevents excessive loss of soil nutrients?

- A. Leaving land bare
- B. Overgrazing
- C. Crop rotation
- D. Flooding

39. Which of the following is NOT a benefit of mulching?

- A. Retains soil moisture
- B. Prevents weed growth
- C. Stops plant growth
- D. Prevents soil erosion

40. The best method of preserving vegetables for future use is:

- A. Drying
- B. Soaking in water
- C. Freezing
- D. Boiling

41. The main function of legumes in farming is to:

- A. Prevent soil erosion
- B. Store nutrients
- C. Fix nitrogen in the soil
- D. Produce a lot of fruits

42. Which of the following is NOT a type of soil tillage?

- A. Primary tillage
- B. Secondary tillage
- C. Zero tillage
- D. Seed tillage

43. The best way to store grains for a long time is by:

- A. Keeping them in a damp place
- B. Drying them properly
- C. Storing them in an open field
- D. Mixing them with soil

44. The best method of preventing post-harvest losses in cereals is:

- A. Using pesticides
- B. Proper drying and storage
- C. Mixing grains with fresh produce
- D. Keeping grains in plastic bags

45. Which of the following is NOT a factor considered when grading fruits?

- A. Size
- B. Shape
- C. Taste
- D. Colour

46. One way of controlling pests in stored grains is:

- A. Using chemical treatment
- B. Sprinkling water on grains
- C. Leaving them in the sun
- D. Mixing them with fresh grains

47. Which of these is a correct method of watering young seedlings?

- A. Using a hosepipe
- B. Sprinkling gently
- C. Pouring water directly
- D. Flooding the soil

48. Which is NOT a method of propagating plants?

- A. Seeds
- B. Cuttings
- C. Grafting
- D. Uprooting

49. A farmer can increase egg production in hens by:

- A. Giving balanced feeds
- B. Keeping hens in dirty conditions
- C. Reducing feeding times
- D. Keeping the birds in darkness

50. A well-drained soil is important because it:

- A. Prevents root rot
- B. Holds too much water
- C. Encourages weed growth
- D. Increases soil compaction

SECTION B:

Answer all questions in this section

51. Give the meaning of the term soil pollution. (2mk)

52. State three measures one can take when controlling pollution resulting from plastic waste materials (3mks)

53

a.) Identify the water retention structures below.(2mks)

Structure A



Structure B



b.) Name four crops that can be established in water retention structure B. **(3mks)**

c) Give three importance of conserving surface run off. **(3mks)**

54. We prepare vegetables in various ways before cooking. Give three ways we can use to reduce loss of nutrients when doing this. **(3mks)**

55. What benefits can farmers obtain from trees. **(5mks)**

56. Define the following terms. **(3mks)**

a.) Afforestation.

b.) Reafforestation

c.) Deforestation.

57. Give four practices done when caring for trees. **(4mks)**

58.

a.) Name the three types of soil tilth. **(3mks)**

b.) The following are planting materials grade seven learner want to plant. Give the way they will prepare the planting site according to each planting material. **(2mks)**



59.

a.) Differentiate between gapping and thinning. **(4mks)**

b.) Weeding helps to eliminate herbicides and other unwanted crops in the farm. State three ways weeding can be done while avoiding soil pollution. **(3mks)**

60.

a.) Grade 7 learners harvested Irish potatoes and heaped them in a shade then covered with dry grass for 2 to 3 day. Identify the management practice the learners were carrying out. **(1mk)**

b.) State the importance of this management practice to the crop. **(1mk)**

c.) Name one other crop that requires the same practice after harvesting. **(1mk)**

d.) During the practice the learners are supposed to turn the Irish potatoes daily. Give a reason why. (1mks)

61. Give four factors considered when sorting and grading eggs. **(4mks)**

SECTION A: (40 MARKS)

1. A farmer noticed that crops in his garden were not growing well due to polluted soil. Which of the following is the best method to reduce soil pollution?
 - A) Burning waste in farms
 - B) Using organic manure
 - C) Dumping plastics in the garden
 - D) Overusing chemical fertilizers
2. In a dry area, farmers need to retain water for their crops. Which structure would help them the most?
 - A) Drainage ditches
 - B) Water pans
 - C) Open fields
 - D) Sandy soils
3. Anita is cooking vegetables for her family. How can she best conserve food nutrients?
 - A) Using excess water when boiling
 - B) Peeling vegetables thickly
 - C) Cooking with little water
 - D) Overcooking food
4. A school is planting trees around their compound. What is one key benefit of this practice?
 - A) Increasing soil erosion
 - B) Polluting the environment
 - C) Conserving water and soil
 - D) Blocking rainfall
5. Before a farmer can harvest crops, what is the first and most important step in food production?
 - A) Cooking the food
 - B) Harvesting the produce
 - C) Processing raw materials
 - D) Selecting quality seeds
6. A farmer wants to prepare a new planting site. What is the best way to do this?
 - A) Burning all vegetation
 - B) Clearing and tilling the land properly
 - C) Using chemicals to kill plants
 - D) Planting without removing weeds
7. Which of the following is a common farm practice to ensure healthy crop growth?
 - A) Weeding
 - B) Burning the farm

- C) Over-fertilizing
 - D) Ignoring pests
8. A fresh egg should have:
- A) A cracked shell B) A firm yolk
 - C) A foul smell D) A watery white
9. How should honey be stored to keep it fresh?
- A) In a hot and humid place
 - B) In a tightly closed container
 - C) In an open bowl
 - D) Mixing with water
10. Roasting is a suitable cooking method for:
- A) Leafy vegetables
 - B) Whole meat and maize
 - C) Raw fruits
 - D) Soup preparation
11. A farmer notices that his farm is losing fertility due to continuous planting of maize. What is the best way to restore soil fertility?
- A) Practicing monocropping
 - B) Practicing crop rotation
 - C) Burning crop residues
 - D) Removing topsoil
12. Mary wants to reduce food wastage at home. Which of the following is the best way to achieve this?
- A) Cooking excess food and throwing away leftovers
 - B) Storing perishable foods properly
 - C) Leaving cooked food uncovered
 - D) Buying more food than needed
13. Which of the following is a correct way of handling kitchen waste to keep the environment clean?
- A) Throwing waste outside randomly
 - B) Separating biodegradable and non-biodegradable waste
 - C) Pouring liquid waste on the floor
 - D) Burning plastic waste in the kitchen

14. A farmer's chicken are laying eggs with weak shells. What nutrient is missing in their diet



- A) Vitamin C B) Carbohydrates
- C) Calcium D) Proteins

15. A farmer notices pests attacking his crops. What is the best eco-friendly way to control them?



- A) Spraying excessive chemical pesticides
- B) Using biological control methods
- C) Ignoring the pest problem
- D) Cutting down all crops

16. Which of the following best describes conservation agriculture?

- A) Farming while preserving soil and water
- B) Cutting down trees for more land
- C) Using only chemical fertilizers
- D) Overgrazing livestock

17. Tom wants to improve soil structure and water retention in his garden. Which practice should he adopt?

- A) Compacting the soil
- B) Mulching
- C) Burning crop remains
- D) Over-irrigating the land

18. A family is sorting food before cooking. Which food item should they avoid consuming?

- A) Fresh vegetables
- B) Rotten tomatoes
- C) Well-dried maize
- D) Clean, washed fruits

19. Which of the following is the best way to store perishable foods like milk and meat?

- A) Leaving them outside
- B) Storing in a cool, dry place
- C) Refrigerating them
- D) Wrapping in paper and keeping in a cupboard

SECTION B: (60 marks)

(Answer all questions. Marks are indicated in brackets.)

21. A school noticed waste materials affecting their school farm's soil quality. List two ways of controlling soil pollution. (2 marks)

a) _____

b) _____

22. Farmers in a semi-arid area need to store water for irrigation. Describe two structures they can use. (4 marks)

a) _____

b) _____

23. A chef wants to cook food while retaining nutrients. List three methods of conserving food nutrients. (3 marks)

a) _____

b) _____

c) _____

24. A local community is planting trees as part of a conservation project. Explain two ways trees help conserve the environment. (4 marks)

a) _____

b) _____

25. A farmer wants to grow maize for sale. Outline four steps in the food production process from planting to harvesting. (4 marks)

a) _____

b) _____

c) _____

d) _____

26. What are three important factors to consider when preparing a planting site? (3 marks)

- a) _____
- b) _____
- c) _____

27. Describe three farming practices that help promote healthy crop growth. (6 marks)

- a) _____
- b) _____
- c) _____

28. A storekeeper wants to prevent eggs from going bad. Explain four proper ways of handling and storing eggs. (4 marks)

- a) _____
- b) _____
- c) _____
- d) _____

29. Differentiate between roasting and steaming as cooking methods. (4 marks)

30. Describe the process of harvesting and storing honey to maintain its quality. (5 marks)

- a) _____
- b) _____
- c) _____
- d) _____
- e) _____