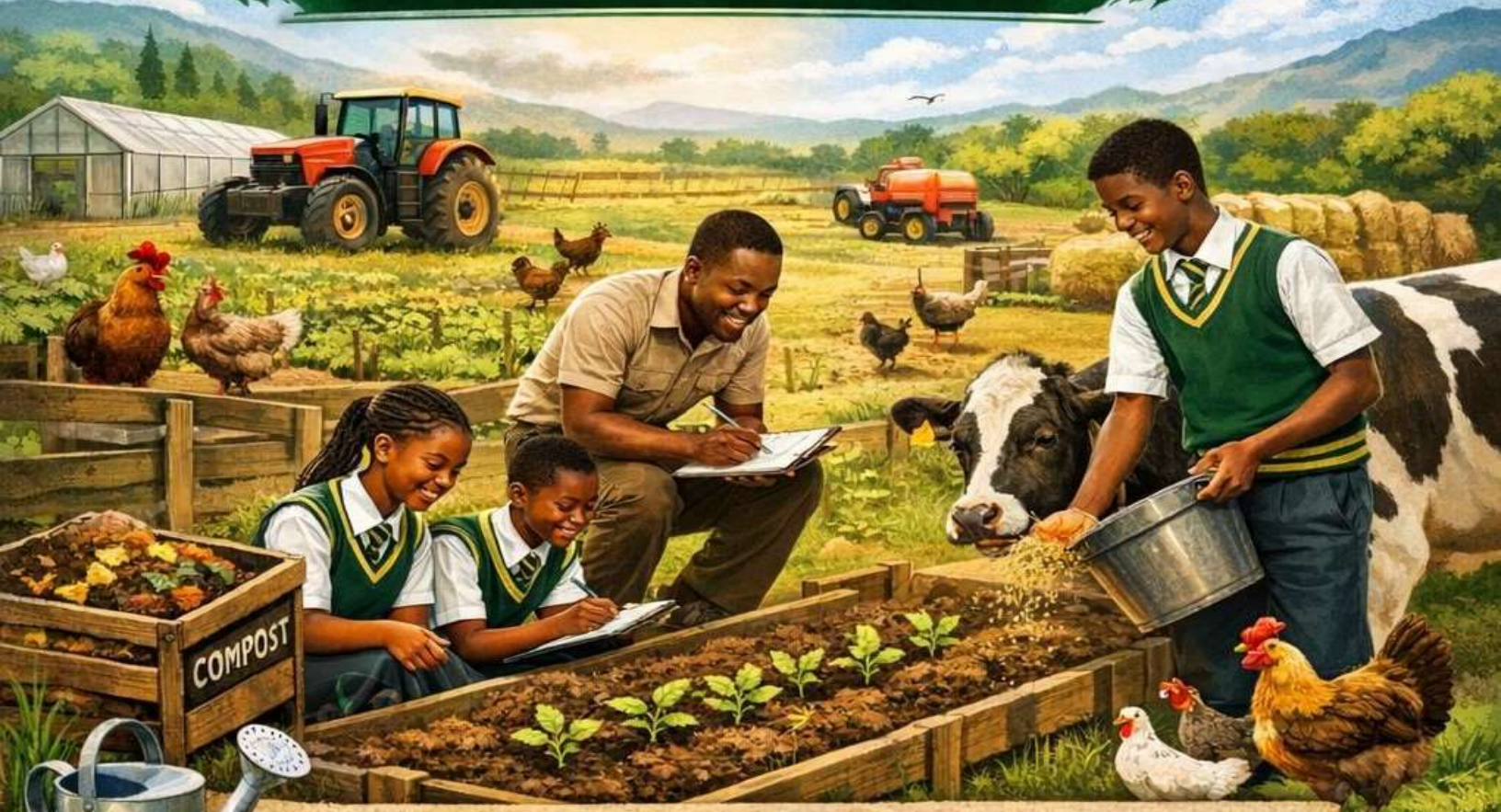
SENIOR SCHOOL – GRADE 10

AGRICULTURE

TOPICAL REVISION BOOK



Strands	Sub Strands
1.0 Crop Production	**1.1** Agricultural Land **1.2** Properties of Soil **1.3** Land Preparation **1.4** Field Management Practices **1.5** Growing Selected Crops **1.6** Crop Protection **1.7** General Crop Harvesting
2.0 Animal Production	**2.1** Breeds of Livestock **2.2** Animal Handing and Safety **2.3** General Animal Health **2.4** Bee Keeping **2.5** Animal Rearing Project
3.0 Agricultural Technologies and Entrepreneurship	**3.1** Tools and Equipment **3.2** Product Processing and Value Addition **3.3** Establishing Agricultural Enterprise **3.4** Marketing Agricultural Produce **3.5** Composting Techniques

AUTHORS: COMPETENCE EDUCATION GROUP

FOR ANSWERS CALL 0743241064

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- ❖ LESSON PLANS
- ❖ SETBOOK QUESTIONS AND ANSWERS
- ❖ SETBOOK VIDEOS
- ❖ EXAMS

GRADE 10 AGRICULTURE – TOPICAL REVISION QUESTIONS

STRAND 1.0: CROP PRODUCTION

SUBSTRAND 1.1: AGRICULTURAL LAND

TOTAL: 100 MARKS

INSTRUCTIONS: Answer ALL questions.

SECTION A: STRUCTURED & STAND-ALONE QUESTIONS (100 MARKS)

1. Define the term agricultural land. (2 marks)

_____

_____

2. State four ways of accessing land for agricultural use. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

3. Differentiate between:

a) Leasing land and Buying land (2 marks)

_____

_____

_____

4. A farmer in your area wants to start a tomato project but has no land.

Suggest three possible land access options. (3 marks)

i. _____

ii. _____

iii. _____

Study the diagrams below



Land A



Land B



Land C

5. Using Diagram 1 above:

a) Identify the land type labelled B. (1 mark)

_____

b) State two challenges of using land type B for farming. (2 marks)

i. _____

ii. _____

c) Suggest two solutions to improve land type B for crop production. (2 marks)

i. _____

ii. _____

6. Explain three reasons why land is important in agricultural production. (6 marks)

i. _____

ii. _____

iii. _____

7. List five land characteristics a farmer should consider before starting a crop project. (5 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

8. State three advantages of leasing land for farming. (3 marks)

i. _____

ii. _____

iii. _____

9. State three disadvantages of leasing land for farming. (3 marks)

i. _____

ii. _____

iii. _____

10. A student says:

"*Inherited land is always the best for farming.*"

Do you agree? Give two reasons. (4 marks)

i. _____

ii. _____

Study the image below and use it to answer the following questions.



11. Using Diagram 2 above:

a) Name the natural factor illustrated. (1 mark)

_____

b) Explain how it affects farming in the hilltop area. (2 marks)

i. _____

ii. _____

c) Explain how it affects farming in the valley area. (2 marks)

i. _____

ii. _____

12. State four natural factors that determine land productivity. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

13. Explain how altitude affects agricultural production. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

14. Explain how climate affects agricultural production. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

15. Explain how soil factors influence land productivity. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

16. Explain how biotic factors influence agricultural land. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

17. List four examples of biotic factors affecting land productivity. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

18. Explain three ways a farmer can improve land productivity. (6 marks)

i. _____

ii. _____

iii. _____

19. State three reasons why farmers prefer flat land for mechanized farming. (3 marks)

i. _____

ii. _____

iii. _____

20. Name four soil properties that affect crop growth. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

21. A farmer owns land in a very dry region.

a) Identify the natural factor affecting productivity. (1 mark)

_____

b) Suggest three ways the farmer can still use the land productively. (3 marks)

i. _____

ii. _____

iii. _____

22. Explain four ways land can be misused in the community. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

23. State four ways of conserving agricultural land. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

24. Give three reasons why land disputes may occur. (3 marks)

i. _____

ii. _____

iii. _____

25. Suggest three ways of preventing land conflicts in the community. (3 marks)

i. _____

ii. _____

iii. _____

Mwangi developed the tool below to assess his farm productivity. Use it to answer the questions that follow

Factor	Good	Poor
Drainage	☐	☐
Soil depth	☐	☐
Water source	☐	☐
Road access	☐	☐

26. Using Diagram 3:

a) Name the tool shown. (1 mark)

_____

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b) State two uses of such a checklist. (2 marks)

i. _____

ii. _____

27. Explain why road access is important when selecting agricultural land. (3 marks)

i. _____

ii. _____

iii. _____

28. Explain why water availability is important when selecting agricultural land. (3 marks)

i. _____

ii. _____

iii. _____

29. State three ways a farmer can determine if soil is fertile without a laboratory. (3 marks)

i. _____

ii. _____

iii. _____

30. Describe two ways farmers can obtain land through donation. (4 marks)

i. _____

ii. _____

31. A student wants to rear poultry but lives in a rented home.

a) Suggest two land access methods suitable for the student. (2 marks)

i. _____

ii. _____

b) Give two challenges the student may face. (2 marks)

i. _____

ii. _____

32. Explain three reasons why land is considered a factor of production. (6 marks)

i. _____

ii. _____

iii. _____

33. Explain the meaning of utility of land. (2 marks)

_____

_____

34. Give four examples showing how land has different utilities. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

35. A farmer has land near a river.

a) State two advantages of farming there. (2 marks)

i. _____

ii. _____

b) State two disadvantages of farming there. (2 marks)

i. _____

ii. _____

36.

a) Identify two climate factors that affects plant growth. (2 marks)

i. _____

ii. _____

b) Explain how one factor affects crop productivity. (2 marks)

i. Wind

_____

_____

ii. Sunlight

_____

_____

37. State three ways of managing wind effects on farms. (3 marks)

i. _____

ii. _____

iii. _____

38. Explain how topography influences:

a) Soil erosion (2 marks)

_____

_____

b) Mechanization (2 marks)

_____

_____

39. Describe four indicators of waterlogged land. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

40. Suggest four methods of improving poorly drained land. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

41. A farmer buys land cheaply but later fails to farm successfully.

Give four possible reasons related to land productivity. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

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42. Explain why land with high fertility may still produce low yields. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

43. State four ways technology can help in assessing land productivity. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

44. Explain the importance of land in ensuring food security in Kenya. (5 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

45. Give three reasons why agricultural land should be protected from subdivision. (3 marks)

i. _____

ii. _____

iii. _____

46. State four effects of deforestation on agricultural land. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

47. Your class visits three farms in the community.

a) State three observations you would make about land types. (3 marks)

i. _____

ii. _____

iii. _____

b) State two questions you would ask a farmer about land access. (2 marks)

i. _____

ii. _____

48. A group of learners wants to lease land for a school farming project.

a) State three factors they should consider before leasing. (3 marks)

i. _____

ii. _____

iii. _____

b) Suggest two ways they can ensure the agreement is safe. (2 marks)

i. _____

ii. _____

49. Explain four ways land contributes to income generation in a community. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

50. State the importance of land in agriculture. (6 marks)

i. _____

ii. _____

iii. _____

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SUBSTRAND 1.2: PROPERTIES OF SOIL

INSTRUCTIONS: Answer ALL questions.

1. Define the term soil. (2 marks)

_____

_____

2. State three main categories of soil properties. (3 marks)

i. _____

ii. _____

iii. _____

3. List four physical properties of soil. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

4. List three chemical properties of soil. (3 marks)

i. _____

ii. _____

iii. _____

5. List three biological properties of soil. (3 marks)

i. _____

ii. _____

iii. _____

6. Explain the meaning of soil texture. (2 marks)

_____

_____

7. Name the three soil separates that determine texture. (3 marks)

i. _____

ii. _____

iii. _____

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8. State two ways soil texture affects crop production. (4 marks)

i. _____

ii. _____

9. Explain what is meant by soil structure. (2 marks)

_____

_____

10. State three types of soil structure. (3 marks)

i. _____

ii. _____

iii. _____

Grade 10 learners of Moi Girls Senior School conducted an experiment on formation of ribbons from different soil samples and shown below.

Soil sample + water → knead → form ribbon



Soil A Soil B Soil C

11. Using Diagram 2 above:

a) Name the test shown. (1 mark)

_____

b) State two uses of this test. (2 marks)

i. _____

ii. _____

12. A learner collects soil and it forms a long ribbon when pressed.

a) Identify the soil type. (1 mark)

_____

b) State two characteristics of this soil. (2 marks)

i. _____

ii. _____

13. Describe two characteristics of sandy soil. (4 marks)

i. _____

ii. _____

14. Describe two characteristics of clay soil. (4 marks)

i. _____

ii. _____

15. Describe two characteristics of loamy soil. (4 marks)

i. _____

ii. _____

16. State four advantages of loamy soil for crop production. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

17. State three disadvantages of sandy soil in farming. (3 marks)

i. _____

ii. _____

iii. _____

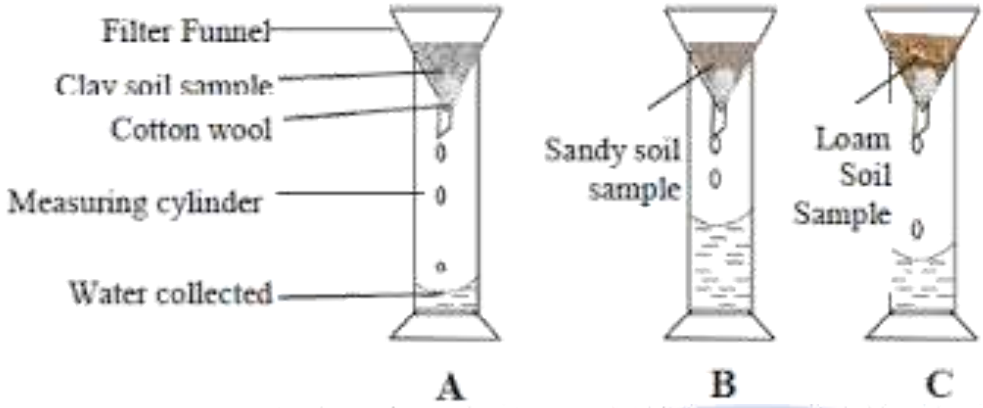
18. State three disadvantages of clay soil in farming. (3 marks)

i. _____

ii. _____

iii. _____

During a soil experiment, grade 10 learners set up the experiment as shown below



19. Name the physical property tested using Diagram 3. (1 mark)

_____

20. State two reasons why this property is important in crop farming. (2 marks)

i. _____

ii. _____

21. Explain the meaning of soil porosity. (2 marks)

_____

_____

22. Explain the meaning of soil permeability. (2 marks)

_____

_____

_____

23. Differentiate between porosity and permeability. (2 marks)

_____

_____

_____

_____

_____

_____

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24. State three factors that affect soil porosity. (3 marks)

i. _____

ii. _____

iii. _____

25. State three factors that affect soil permeability. (3 marks)

i. _____

ii. _____

iii. _____

26. Explain the meaning of soil pH. (2 marks)

_____

_____

_____

27. State the pH range for:

a) Strongly acidic soil_____(1 mark)

b) Neutral soil _____(1 mark)

c) Strongly alkaline soil_____(1 mark)

Mr Musalia displayed a soil $_{P}^{H}$. scale as shown below



28. Using Diagram 4:

a) Identify the pH of neutral soil._____(1 mark)

b) State the pH of a soil that is strongly acidic._____(1 mark)

29. State three effects of acidic soil on crop growth. (3 marks)

i. _____

ii. _____

iii. _____

30. State three effects of alkaline soil on crop growth. (3 marks)

i. _____

ii. _____

iii. _____

31. Name three materials used to correct acidic soils. (3 marks)

i. _____

ii. _____

iii. _____

32. Name two materials used to correct alkaline soils. (2 marks)

i. _____

ii. _____

33. Describe two ways of testing soil pH in a school laboratory. (4 marks)

i. _____

ii. _____

34. Explain what is meant by soil humus. (2 marks)

_____

_____

_____

35. State three benefits of humus in crop production. (3 marks)

i. _____

ii. _____

iii. _____

36. Name four living organisms found in soil. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

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37. Explain three roles of soil organisms in crop production. (6 marks)

i. _____

ii. _____

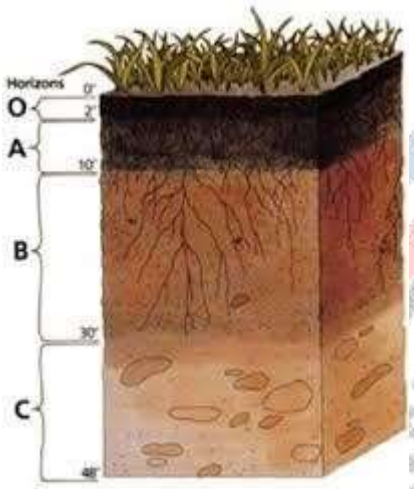
iii. _____

38. Define the term soil profile. (2 marks)

_____

_____

39. Using the diagram below:



a) Name the horizon that contains the most humus. (1 mark)

_____

b) State two characteristics of this horizon. (2 marks)

i. _____

ii. _____

40. Explain three ways soil profile is important in crop production. (6 marks)

i. _____

ii. _____

iii. _____

41. State three differences between topsoil and subsoil. (3 marks)

	Top soil		**Sub soil**
i		i	
ii		ii	

42. A learner wants to investigate soil texture.

a) Name one method they can use. (1 mark)

_____

b) List two materials required. (2 marks)

i. _____
ii. _____
iii. _____

43. Describe an experiment to test soil porosity. (4 marks)

i. _____
ii. _____
iii. _____
iv. _____
v. _____
vi. _____

44. Describe an experiment to test soil permeability. (4 marks)

i. _____
ii. _____
iii. _____
iv. _____

45. A learner tested soil pH and obtained pH 4.5.

a) Classify the soil. _____(1 mark)

b) Suggest two ways of improving it for maize production. (2 marks)

i. _____
ii. _____

46. Explain why soil with good structure supports healthy crop growth. (4 marks)

i. _____
ii. _____
iii. _____
iv. _____

47. A farmer complains that crops are yellow and stunted. The soil is strongly acidic.

a) Name one nutrient likely unavailable. _____(1 mark)

b) Explain why the nutrient becomes unavailable. (2 marks)

i. _____

ii. _____

c) Suggest one corrective measure. (1 mark)

_____

_____

48. Explain why sandy soil is not suitable for rice farming. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

49. A farmer wants to grow carrots.

a) Which soil type is best?_____(1 mark)

b) Give two reasons for your answer. (2 marks)

i. _____

ii. _____

50. Explain three reasons why farmers should test soil properties before planting. (6 marks)

i. _____

ii. _____

iii. _____

SUBSTRAND 1.3: LAND PREPARATION

INSTRUCTIONS: Answer ALL questions.

The diagram below shows land preparation stages

Fallow Land

↓

Land Clearing

↓

Primary Cultivation

↓

Secondary Cultivation

↓

Tertiary Operations

↓

Seedbed Ready

1. Define the term land preparation. (2 marks)

_____

_____

_____

2. State four activities carried out during land preparation. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

3. Give three reasons why land clearing is done before cultivation. (3 marks)

i. _____

ii. _____

iii. _____

4. List four materials or obstacles removed during land clearing. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

5. Explain the meaning of fallow land. (2 marks)

i. _____

ii. _____

6. State three benefits of leaving land fallow. (3 marks)

i. _____

ii. _____

iii. _____

7. Name four hand tools used in land preparation. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

8. State two uses of a hoe in land preparation. (2 marks)

i. _____

ii. _____

9. State two uses of a rake in land preparation. (2 marks)

i. _____

ii. _____

10. Explain the meaning of primary cultivation. (2 marks)

_____

_____

11. State three objectives of primary cultivation. (3 marks)

i. _____

ii. _____

iii. _____

12. Name three methods of primary cultivation. (3 marks)

i. _____

ii. _____

iii. _____

13. Explain the meaning of secondary cultivation. (2 marks)

i. _____

ii. _____

iii. _____

14. State three objectives of secondary cultivation. (3 marks)

i. _____

ii. _____

iii. _____

15. Name three methods of secondary cultivation. (3 marks)

i. _____

ii. _____

iii. _____

16. Explain the meaning of tertiary operations. (2 marks)

_____

_____

_____

17. State four tertiary operations carried out after secondary cultivation. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

Study the image below and use it to answer the following questions



18. Name the land preparation activity shown in the diagram above. (1 mark)

_____

19. State two advantages of using a tractor during land preparation. (2 marks)

i. _____

ii. _____

20. State three disadvantages of mechanized land preparation. (3 marks)

i. _____

ii. _____

iii. _____

21. Define the term seedbed. (2 marks)

_____

_____

_____

22. State four characteristics of a good seedbed. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

23. Explain three reasons why a fine tilth is required for small seeds. (3 marks)

i. _____

ii. _____

iii. _____

24. Define the term conservation tillage. (2 marks)

_____

_____

25. State three reasons why conservation tillage is practiced. (3 marks)

i. _____

ii. _____

iii. _____

26. Explain what is meant by minimum tillage. (2 marks)

_____

_____

27. Explain what is meant by zero tillage. (2 marks)

_____

_____

28. Differentiate between minimum tillage and zero tillage. (2 marks)

_____

_____

_____

29. State three advantages of minimum tillage. (3 marks)

i. _____

ii. _____

iii. _____

30. State three advantages of zero tillage. (3 marks)

i. _____

ii. _____

iii. _____

31. State three disadvantages of conservation tillage. (3 marks)

i. _____

ii. _____

iii. _____

Some Crop residues were left on soil surface as shown below



32. Using the diagram above:

a) Identify the farming practice shown. (1 mark)

_____

b) State two benefits of leaving crop residues on the soil surface. (2 marks)

i. _____

ii. _____

33. A farmer wants to plant maize in a field full of shrubs and stones.

a) Name the first operation to be done. (1 mark)

_____

b) Give two tools used in this operation. (2 marks)

i. _____

ii. _____

34. Explain four ways land preparation helps in weed control. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

35. Explain three ways land preparation improves soil aeration. (3 marks)

i. _____

ii. _____

iii. _____

36. A farmer ploughed land when it was too wet.

a) State two negative effects on soil. (2 marks)

i. _____

ii. _____

b) Suggest one solution. (1 mark)

_____

_____

37. State three factors that determine the method of land preparation used. (3 marks)

i. _____

ii. _____

iii. _____

38. Explain how the following influence land preparation:

a) Soil type (2 marks)

_____

_____

_____

b) Slope/topography (2 marks)

_____

_____

_____

During a class interaction activity on agriculture, learners listed the following types of land

A: Flat land

B: Gentle slope

C: Steep slope

39.

a) Identify the land most suitable for mechanized ploughing. (1 mark)

_____

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b) Give one reason. (1 mark)

_____

_____

c) State one conservation tillage practice suitable for steep slopes. (1 mark)

_____

_____

40. List four safety rules followed during land clearing. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

41. State three safety precautions when using a hoe or jembe. (3 marks)

i. _____

ii. _____

iii. _____

42. Describe the steps followed when preparing land for planting vegetables. (6 marks)

i. _____

ii. _____

iii. _____

43. Explain why land preparation should be done at the correct time. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

44. State four reasons why proper land preparation is important in crop production. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

45. Explain how land preparation contributes to:

a) Good germination (2 marks)

_____

_____

_____

b) Strong root development (2 marks)

_____

_____

_____

46. State three ways land preparation helps in conserving soil moisture. (3 marks)

i. _____

ii. _____

iii. _____

47. A farmer uses zero tillage but still gets poor yields.

Give four possible reasons. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

48. Explain why land preparation may be minimal in areas with low rainfall. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

49. A group of learners is preparing a school farm.

a) Suggest three activities they should carry out. (3 marks)

i. _____

ii. _____

iii. _____

b) State two reasons why teamwork is important in land preparation. (2 marks)

i. _____

ii. _____

50. Explain the importance of land preparation in crop production. (6 marks)

i. _____

ii. _____

iii. _____



SUBSTRAND 1.4: FIELD MANAGEMENT PRACTICES

INSTRUCTIONS: Answer ALL questions.

1. Define the term field management practices. (2 marks)

_____

_____

2. State three examples of field management practices done after planting. (3 marks)

i. _____

ii. _____

iii. _____

3. Explain why field management practices are important in crop production. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

4. Define the term pruning. (2 marks)

_____

_____

5. Name four vegetable crops that require pruning. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

6. State three reasons why tomatoes are pruned. (3 marks)

i. _____

ii. _____

iii. _____

7. State three reasons why capsicum (sweet pepper) is pruned. (3 marks)

i. _____

ii. _____

iii. _____

8. Explain the meaning of single stem pruning. (2 marks)

_____

_____

9. Explain the meaning of multiple stem pruning. (2 marks)

_____

_____

_____

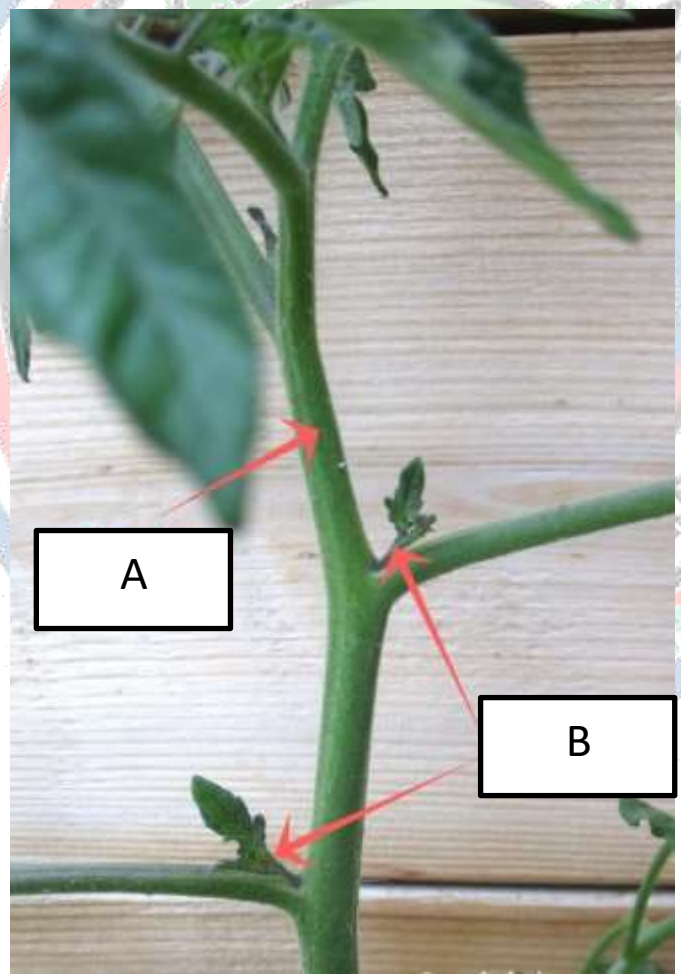
10. Differentiate between single stem pruning and multiple stem pruning. (2 marks)

_____

_____

_____

Use the diagram below to answer the questions that follow



11.

a) Identify the part labelled "B". (1 mark)

_____

b) State one reason why suckers are removed. (1 mark)

_____

_____

c) State one disadvantage of removing too many suckers. (1 mark)

_____

_____

12. Describe four steps followed when pruning tomatoes correctly. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

13. State three tools used for pruning vegetable crops. (3 marks)

i. _____

ii. _____

iii. _____

14. State four safety precautions observed during pruning. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

15. State three signs that show a tomato plant needs pruning. (3 marks)

i. _____

ii. _____

iii. _____

16. State two disadvantages of failing to prune tomato plants. (2 marks)

i. _____

ii. _____

17. State two disadvantages of over-pruning vegetable crops. (2 marks)

i. _____

ii. _____

18. Define the term perennial crop. (2 marks)

_____

_____

_____

19. Give four examples of perennial crops that require pruning. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

20. State three reasons why perennial crops are pruned. (3 marks)

i. _____

ii. _____

iii. _____

21. Identify the pruning method shown below. (1 mark)



_____

22. State two reasons for using this method. (2 marks)

i. _____

ii. _____

23. Explain the meaning of cutting back in perennial crops. (2 marks)

_____

_____

_____

24. State three times when pruning of perennial crops is done. (3 marks)

i. _____

ii. _____

iii. _____

25. State four characteristics of a good pruning cut. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

26. Explain three ways pruning helps in pest and disease control. (6 marks)

i. _____

ii. _____

iii. _____

27. Define the term top dressing. (2 marks)

_____

_____

28. State three reasons why top dressing is done in crop production. (3 marks)

i. _____

ii. _____

iii. _____

29. Name four fertilizers commonly used for top dressing. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

30. State three crops that require top dressing. (3 marks)

i. _____

ii. _____

iii. _____

31. (a)State three signs that show a crop needs nitrogen top dressing. (3 marks)

i. _____

ii. _____

iii. _____

(b) State one use of the following farm tools ;

i. pruning hook ($^1/_2$marks)

_____

ii. bow saw ($^1/_2$marks)

_____

Different farmers were seen applying fertilizers using different application methods as shown below.



A



B



C



D

32.

a) Name the method labelled A. (1 mark)

_____

b) Name the method labelled B. (1 mark)

_____

c) Name the method labelled C and D. (2 marks)

C: _____

D:_____

33. State two advantages of the ring method of top dressing. (2 marks)

i. _____

ii. _____

34. State two disadvantages of broadcasting fertilizer. (2 marks)

i. _____

ii. _____

35. Explain why fertilizer should not touch the plant stem during top dressing. (2 marks)

i. _____

ii. _____

36. State four safety precautions observed when handling fertilizers. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

37. Describe a simple school-based activity to demonstrate pruning in tomatoes. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

38. Describe a procedure for top dressing maize using CAN fertilizer. (5 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

39. State three factors that determine the type of fertilizer used for top dressing. (3 marks)

i. _____

ii. _____

iii. _____

40. Explain three factors that determine the time of top dressing. (6 marks)

i. _____

ii. _____

iii. _____

41. A farmer top dressed crops and later the plants dried up.

State three possible mistakes the farmer made. (3 marks)

i. _____

ii. _____

iii. _____

42. A farmer pruned tomatoes using a dirty blade.

a) State one possible effect. (1 mark)

_____

_____

b) Suggest two solutions. (2 marks)

i. _____

ii. _____

43. Explain why pruning is done early in the morning or late in the evening. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

44. State four benefits of pruning vegetable crops. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

45. State four benefits of pruning perennial crops. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

46. A farmer grows tomatoes in a greenhouse but refuses to prune.

Predict four results on crop yield and health. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

47. Explain why top dressing should be done when the soil has enough moisture. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

48. A learner observes that crops are green but weak and fall over easily.

a) Which nutrient is likely too much? (1 mark)

_____

b) Explain the effect of excess nutrient. (2 marks)

i. _____

ii. _____

c) Suggest one corrective measure. (1 mark)

_____

_____

49. A farmer wants to prune capsicum but does not know whether to use single stem or multiple stem pruning.

a) Suggest one situation where single stem is best. (2 marks)

_____

_____

b) Suggest one situation where multiple stem is best. (2 marks)

_____

_____

50. Explain how pruning and top dressing improve crop yield and quality. (6 marks)

SUBSTRAND 1.5: GROWING SELECTED CROPS

INSTRUCTIONS: Answer ALL questions.

1. Define the term nursery bed. (2 marks)

_____

_____

2. State four crops that are established through a nursery. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

3. State three reasons why some crops are first raised in a nursery. (3 marks)

i. _____

ii. _____

iii. _____

4. Give three advantages of raising crops in a nursery before transplanting. (3 marks)

i. _____

ii. _____

iii. _____

5. Differentiate between:

a) Nursery bed and seedbed (2 marks)

_____

_____

_____

b) Direct sowing and transplanting (2 marks)

_____

_____

_____

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6. State four factors considered when selecting a site for a nursery bed. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

7. State three materials required when establishing a nursery bed. (3 marks)

i. _____

ii. _____

iii. _____

8. List five steps followed when preparing a nursery bed. (5 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

9.

a) State one reason why nursery beds are made narrow (about 1m). (1 mark)

_____

_____

b) State two reasons for leaving paths between nursery beds. (2 marks)

i. _____

ii. _____

10. Explain why nursery beds are raised above ground level. (3 marks)

i. _____

ii. _____

iii. _____

11. State three methods used to treat nursery soil before sowing seeds. (3 marks)

i. _____

ii. _____

iii. _____

12. Explain the importance of soil sterilization in a nursery. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

13. State three methods of sowing seeds in a nursery bed. (3 marks)

i. _____

ii. _____

iii. _____

14. Describe the steps of sowing tomato seeds in a nursery bed. (5 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

15. State three reasons why seeds are mixed with sand before sowing. (3 marks)

i. _____

ii. _____

iii. _____

16.

a) State the correct rule for sowing depth. (1 mark)

_____

b) Give two effects of sowing seeds too deep. (2 marks)

i. _____

ii. _____

17. State four nursery bed management practices. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

18. Explain why shading is important in a nursery. (3 marks)

i. _____

ii. _____

iii. _____

19. State three materials used for shading a nursery bed. (3 marks)

i. _____

ii. _____

iii. _____

20. Explain why watering in the nursery should be done gently. (2 marks)

i. _____

ii. _____

21. Define the term thinning. (2 marks)

_____

_____

_____

22. State two reasons why thinning is done in nursery beds. (2 marks)

i. _____

ii. _____

23. Define the term pricking out. (2 marks)

_____

_____

24. State three reasons for pricking out seedlings. (3 marks)

i. _____

ii. _____

iii. _____

25. Explain the meaning of hardening off. (2 marks)

_____

_____

_____

26. State four ways of hardening off seedlings. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

Study the agricultural process below

Day 1–2: Reduce shade slightly

Day 3–4: Reduce watering slightly

Day 5–6: Expose more sunlight

Day 7: Ready for transplanting

27.

a) Name the process shown. (1 mark)

_____

b) State two reasons why this process is important. (2 marks)

i. _____

ii. _____

28. State four signs that show seedlings are ready for transplanting. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

29. State four factors to consider when transplanting seedlings. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

30. Describe the correct procedure for transplanting seedlings. (6 marks)

i. _____

ii. _____

iii. _____

iv. _____

31. State three mistakes farmers make during transplanting. (3 marks)

i. _____

ii. _____

iii. _____

32. Explain three ways to reduce transplanting shock. (6 marks)

i. _____

ii. _____

iii. _____

Use the illustration below to answer the following questions.

Hole made → Seedling placed upright → Soil pressed → Watered

33.

a) State two correct actions done after placing the seedling in the hole. (2 marks)

i. _____

ii. _____

b) Give one reason why soil is pressed firmly around the seedling. (1 mark)

_____

34. State five field management practices carried out after transplanting. (5 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

35. Explain why weeding is important in growing a selected crop. (3 marks)

i. _____

ii. _____

iii. _____

36. State three methods of controlling weeds in vegetable crops. (3 marks)

i. _____

ii. _____

iii. _____

37. Explain the importance of mulching in vegetable farming. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

38. State four materials used for mulching. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

39. Explain why staking is important in tomato production. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

40. State three materials used for staking. (3 marks)

i. _____

ii. _____

iii. _____

41. Define the term harvesting. (2 marks)

_____

_____

42. State four signs that show vegetables are ready for harvesting. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

43. State three reasons why harvesting should be done at the correct time. (3 marks)

i. _____

ii. _____

iii. _____

44. State three effects of late harvesting in vegetables. (3 marks)

i. _____

ii. _____

iii. _____

Below is a tomato maturity process

Green → Breaker → Turning → Pink → Red ripe

45.

a) Name the stage best for long distance transport. (1 mark)

_____

b) Give one reason. (1 mark)

i. _____

46. A farmer raised tomato seedlings but many died after transplanting.

State four possible causes. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

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47. A nursery bed is attacked by damping-off disease.

a) State two symptoms of damping-off. (2 marks)

i. _____

ii. _____

b) Suggest two control measures. (2 marks)

i. _____

ii. _____

48. Explain why crop management practices must change depending on the crop type (tomatoes, onions, cabbage). (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

49. A group of learners is growing capsicum as a school project.

a) Suggest three nursery practices they must do. (3 marks)

i. _____

ii. _____

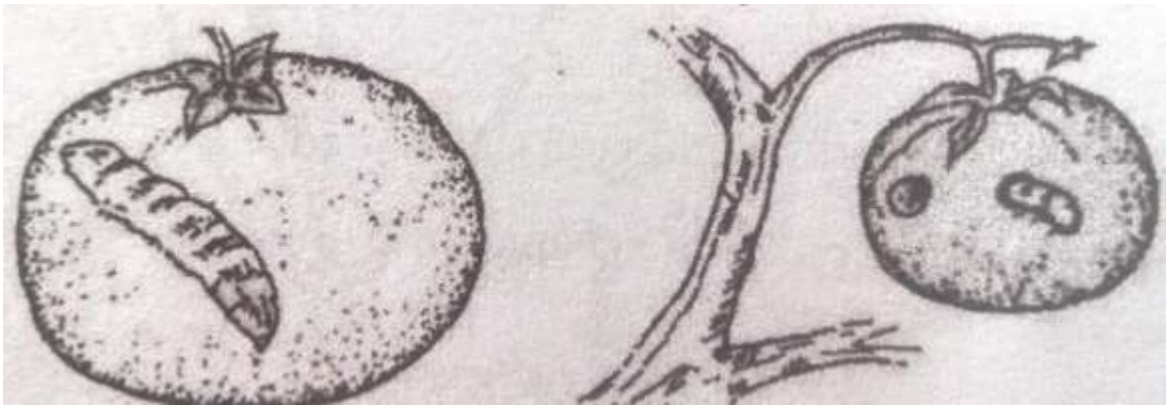
iii. _____

b) Suggest two field practices after transplanting. (2 marks)

i. _____

ii. _____

50. The diagram below shows a tomato plant attacked by a certain pest.



a). Identify the pest (1 mk)

_____-

b). Give two harmful effects caused by pest on tomato plants (2 mks)

I. _____

II. _____

c). Give the control measure of the above pest. (1 mk)

i. _____

d). Name other pests of tomato plants (1 mk)

i. _____

51. The teacher has provided you with a tomato plants that appears to have stunted growth and yellowing leaves. Using science knowledge

a. Identify two possible causes of the problem. (2 Marks)

_____

_____

b. Suggest two solutions to address the problem. (2 Marks)

_____

_____

52. State three control measures for blossom end -rot disease in tomatoes. (1 ½ mks)

i. _____

ii. _____

iii. _____

SUBSTRAND 1.6: CROP PROTECTION (WEEDS)

INSTRUCTIONS: Answer ALL questions.

1.

(a) Define the term weed. (2 marks)

_____

_____

(b) Below are diagrams of common weeds found in the farm. Use them to answer questions that follow.



a) Identify weeds Q, R and S. (3mks)

Q:_____.

R:_____.

S:_____.

b) Mention one harmful effect of weed Q and R. (1mk)

_____

_____

c) Give a reason why weed S is referred to as a parasitic weed. (1mk)

_____

_____

2. State four characteristics of weeds. (4 marks)

i. _____

ii. _____

iii. _____

3. Give four examples of common weeds found in crop fields in Kenya. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

4. State three reasons why weeds grow faster than crops. (3 marks)

i. _____

ii. _____

iii. _____

5. Explain why weed identification is important before choosing a control method. (3 marks)

i. _____

ii. _____

iii. _____

6. State four places where weeds can be found on a farm. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

7. State three ways of classifying weeds. (3 marks)

i. _____

ii. _____

iii. _____

8. Classify weeds based on life cycle into three groups. (3 marks)

i. _____

ii. _____

iii. _____

9. Define the following:

a) Annual weeds (2 marks)

_____

_____

b) Biennial weeds (2 marks)

c) Perennial weeds (2 marks)

10. Give two examples of annual weeds. (2 marks)

i.

ii.

11. Give two examples of biennial weeds. (2 marks)

i.

ii.

12. Give two examples of perennial weeds. (2 marks)

i.

ii.

13.

a) State one feature of grass weeds. (1 mark)

b) State one feature of broadleaf weeds. (1 mark)

c) State one feature of sedges. (1 mark)

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14. Differentiate between grass weeds and sedge weeds. (2 marks)

15. Explain why sedge weeds are difficult to control. (3 marks)

16. State four harmful effects of weeds in crop production. (4 marks)

i.

ii.

iii.

iv.

17. Explain three ways weeds reduce crop yield. (6 marks)

i.

ii.

iii.

18. State three ways weeds affect livestock production. (3 marks)

i.

ii.

iii.

19. State four ways weeds can increase farming costs. (4 marks)

i.

ii.

iii.

iv.

20. State three beneficial uses of weeds in a farming household. (3 marks)

i.

ii.

iii.

21. Explain two ways weeds can help in soil conservation. (4 marks)

i. _____

ii. _____

22. List five methods of weed control. (5 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

23. Explain the meaning of physical weed control. (2 marks)

_____

_____

_____

24. State four examples of physical weed control methods. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

25. Explain the meaning of cultural weed control. (2 marks)

i. _____

ii. _____

26. State four cultural weed control methods. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

27. Explain the meaning of biological weed control. (2 marks)

i. _____

ii. _____

28. State three examples of biological weed control. (3 marks)

i. _____

ii. _____

iii. _____

29. Explain the meaning of chemical weed control. (2 marks)

_____

_____

_____

30. State four advantages of chemical weed control. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

31. State four disadvantages of chemical weed control. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

32. Explain the meaning of legislative weed control. (2 marks)

_____

_____

33. Give three examples of legislative weed control measures. (3 marks)

i. _____

ii. _____

iii. _____

34. Name the equipment shown in Diagram 3. (1 mark)



_____

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35. State three safety precautions when using the equipment. (3 marks)

i. _____

ii. _____

iii. _____

36. Define the term integrated weed management. (2 marks)

_____

_____

37. State four benefits of integrated weed management. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

38. State four factors that determine the method of weed control used. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

39. Describe how you would prepare a weed herbarium. (5 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

40. State four items required when making a weed herbarium. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

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41. A learner uproots weeds and leaves them in the field.

a) State one disadvantage of this practice. (1 mark)

_____

_____

b) Suggest two correct ways of disposing weeds. (2 marks)

i. _____

ii. _____

42. Describe steps followed in hand weeding of a vegetable garden. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

43. Explain why early weed control is recommended in crop production. (4 marks)

i. _____

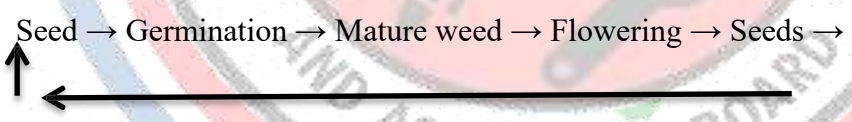
ii. _____

iii. _____

iv. _____

Study the chart below and answer the questions that follow.

44.



a) Identify the best stage to control weeds. (1 mark)

_____

b) Give one reason. (1 mark)

_____

_____

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45. A farmer sprays herbicide but weeds regrow after 2 weeks.

Give four possible reasons. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

46. Explain why perennial weeds are harder to control than annual weeds. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

47. A maize farmer wants to control weeds without using chemicals.

a) Suggest three suitable methods. (3 marks)

i. _____

ii. _____

iii. _____

b) Give two disadvantages of using only non-chemical methods. (2 marks)

i. _____

ii. _____

48. A group of learners is managing weeds in a school kale plot.

a) Suggest three weed control practices they can use. (3 marks)

i. _____

ii. _____

iii. _____

b) State two safety rules they should follow. (2 marks)

i. _____

ii. _____

49. Explain the importance of weed control in preventing pests and diseases. (4 marks)

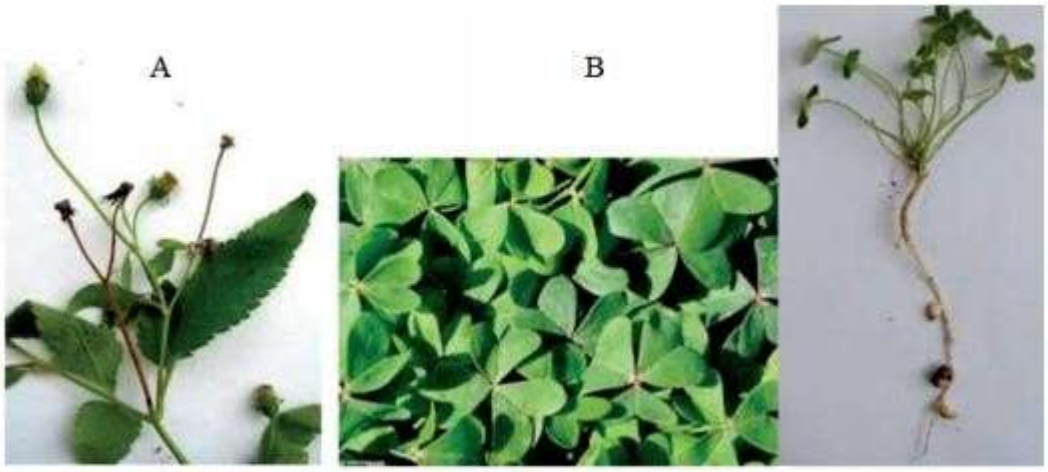
i. _____

ii. _____

iii. _____

iv. _____

50. The photograph below shows weeds labeled **A** and **B.**



a. Identify the weed labeled **A.** (1 mark)

_____

b. State **one** mechanical control measure for the weed labeled **A.** (1 mark)

_____

_____

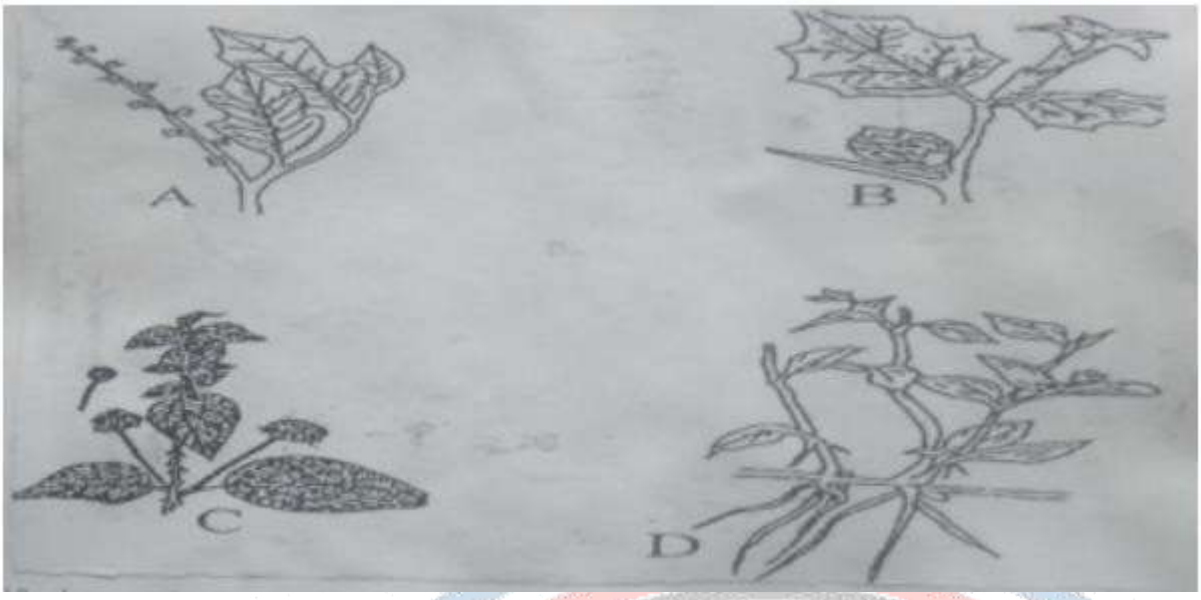
c. Which category of herbicide will be most suitable to control the weeds labelled A and B? (1 mark)

_____

d. Give a reason for your answer on weed B in (c) above. (1 mark)

_____

51. Study the weeds illustrated below and answer the questions that follow



a. Identify the weeds shown (2 mks)

A._____.

B._____

C_____

D._____

b. Give one economic importance of each one of the weeds (2 mks)

A-_____

B-._____

c. State the advantage of weed C on the farm (1 mk)

_____

_____

d. Why is weed D difficult to control (1 mk)

_____

_____

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STRAND 2.0: ANIMAL PRODUCTION

SUBSTRAND 2.1: BREEDS OF LIVESTOCK

CATTLE BREEDS

1. Define the term breed in livestock. (2 marks)

_____

_____

2. Name two dairy cattle breeds found in Kenya. (2 marks)

i. _____

ii. _____

3. Name two beef cattle breeds found in Kenya. (2 marks)

i. _____

ii. _____

4. State three observable characteristics of Holstein Friesian cattle. (3 marks)

i. _____

ii. _____

iii. _____

5. State three observable characteristics of Boran cattle. (3 marks)

i. _____

ii. _____

iii. _____

6. Explain two differences between dairy and beef cattle. (4 marks)

Dairy cattle	**Beef cattle**

7. State two purposes of keeping dairy cattle. (2 marks)

i. _____

ii. _____

8. State two purposes of keeping beef cattle. (2 marks)

i. _____

ii. _____

9. Explain one reason why crossbreeding is done in cattle. (2 marks)

_____

_____

10. (a) A farmer wants high milk production but low adaptability. Suggest one suitable breed. (2 marks)

i. _____

ii. _____

(b) State the origin of each of the following dual purpose cattle breeds. (1 mark)

a. Sahiwal:_____

b. Red poll:_____

c) Identify the names of the following breeds of cattle



A



B



C



D



E

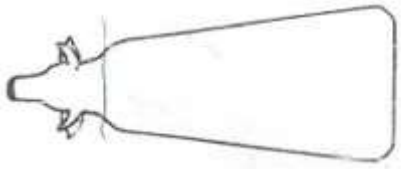
A: _____ E: _____

B: _____

C: _____

D: _____

d) Below is an illustration showing a birds view of a cow.



a) With a reason identify, the type of cattle shown above. (2mks)

_____

_____

b) State three other ideal features of the above animal not seen from the illustration. (3mks)

i. _____

ii. _____

iii. _____

PIG BREEDS

11. Name two breeds of pigs found in Kenya. (2 marks)

i. _____

ii. _____

12. State two observable characteristics of Large White pigs. (2 marks)

i. _____

ii. _____

13. State two observable characteristics of Landrace pigs. (2 marks)

i. _____

ii. _____

14. Differentiate commercial pigs from local pigs. (3 marks)

Commercial pigs	**Local pigs**

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15. State two purposes of keeping pigs. (2 marks)

i. _____

ii. _____

16. Explain why pigs require balanced feed for productivity. (2 marks)

i. _____

ii. _____

17.(a) State two advantages of keeping improved pig breeds. (2 marks)

i. _____

ii. _____

iii. _____

iv. _____

b) Identify the following breeds of livestock:

i. A pig with dished face, erect ears and white colour _____(1mk)

ii. A beef breed of cattle which is cream in colour and the male weighs up to 1200 kg

_____

iii. A breed of goat usually with long hair _____(1 mk)

iv. A wool sheep with long curly wool usually covers its face _____(1 mk)

c) The photographs labeled D and E are pig breeds. Study them and answer the questions that follow.



D E

i) Identify the breeds D and E (1 mark)

D: _____

E: _____

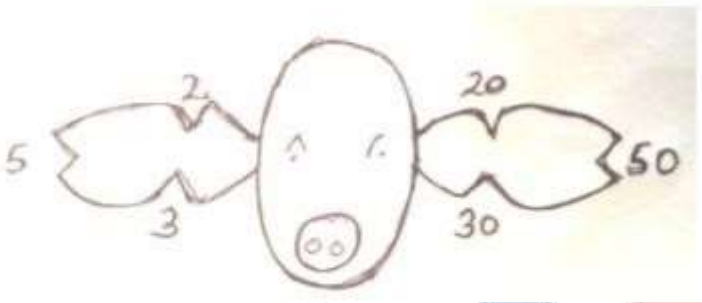
ii) Name the part labeled G on the diagram E (1 mark)

_____

iii) State the main product got from breed D (1mark)

_____

d) Study the diagram below and answer the questions that follow



i. Name the practice illustrated above (1mk)

_____

ii. Name the type of method illustrated above (1mk)

_____

iii. Give the identification number of the pig illustrated above (1mk)

_____

iv. Using a diagram, illustrate how animal number 85 can be identified using the above diagram. (2mks)

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RABBIT BREEDS

18. Name two breeds of rabbits used in Kenya. (2 marks)

i. _____

ii. _____

19. State three characteristics of New Zealand White rabbits. (3 marks)

i. _____

ii. _____

iii. _____

20. State three characteristics of Californian rabbits. (3 marks)

i. _____

ii. _____

iii. _____

21. Explain two reasons why rabbits are kept in small-scale farming. (2 marks)

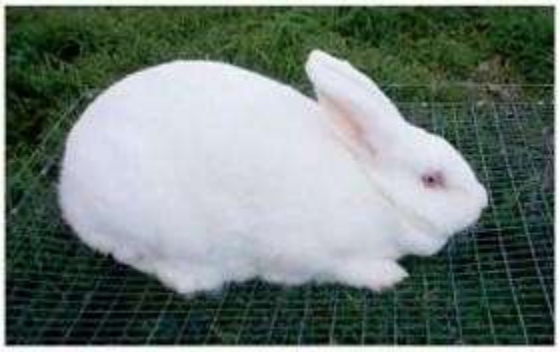
i. _____

ii. _____

22. (a)State two differences between meat rabbits and fancy rabbits. (2 marks)

Meat rabbits	Fancy rabbits

b)The pictures below illustrate two rabbit breeds.



A



B

i. Name the rabbit breeds shown above.

A _____(1 mark)

B_____(1 mark)

ii. Name the major feeding practice missing from the photograph labeled B. (1 mark)

_____

_____

iii. Give **one** advantage of housing the rabbits on the floor illustrated above. (1 mark)

_____

_____

d) Below is a photograph of a rabbit breed, study it and answer the questions that follow.



a) Identify two observable characteristics used to identify the above rabbit breed. (2 marks)

i. _____

ii. _____

b) State one reason why the above rabbit breed is preferred by most farmers. (1 mark)

_____

_____

c) Give two reasons why rabbit keeping is gaining more popularity in Kenya. (2 marks)

i. _____

ii. _____

SHEEP BREEDS

23. Name two breeds of sheep in Kenya. (2 marks)

i. _____

ii. _____

24. State three characteristics of Dorper sheep. (3 marks)

i. _____

ii. _____

iii. _____

25. State three characteristics of Merino sheep. (3 marks)

i. _____

ii. _____

iii. _____

26. Explain two differences between meat sheep and wool sheep. (4 marks)

i. _____

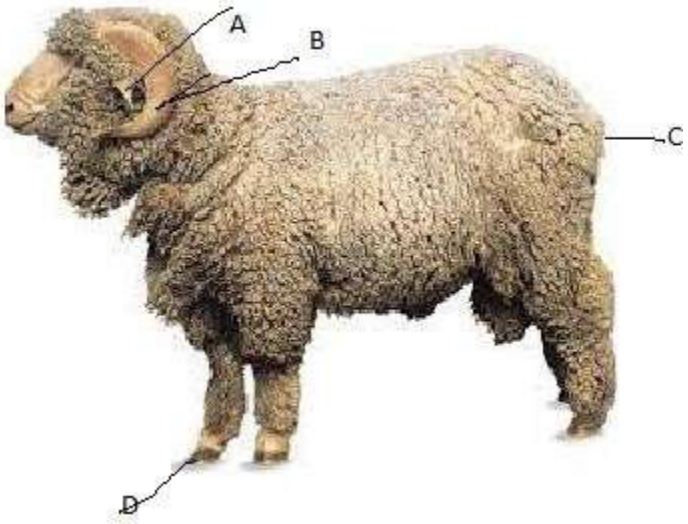
ii. _____

27. (a) State two purposes of keeping sheep. (2 marks)

i. _____

ii. _____

b) Study the diagram below and answer the questions that follow.



i. Identify the sheep breed illustrated (1 mark)

_____

ii. Identify the practice that can be carried out at point labeled **C** and D (2 marks)

C:_____.

D:_____.

iii. Name the practice that should be carried at point **B** at the early stages of development. (1 mark)

_____

_____

iv. Identify the practice that can be carried out at point labeled **C** and D (2 marks)

C: _____

D:_____

GOAT BREEDS

28. Name two goat breeds in Kenya. (2 marks)

i. _____

ii. _____

29. State three characteristics of Saanen goats. (3 marks)

i. _____

ii. _____

iii. _____

30. State three characteristics of Boer goats. (3 marks)

i. _____

ii. _____

iii. _____

31. State two differences between dairy and meat goats. (2 marks)

_____

_____

_____

_____

_____

_____

32.(a) Explain two purposes of keeping goats. (2 marks)

i. _____

ii. _____

b)

i: identify two exotic Dairy breed of goats reared in Kenya

i. _____

ii. _____

ii: identify two breeds of Meat goats reared in Kenya

i. _____

ii. _____

c) The picture below shows a breed of goat kept in East Africa. Use it to answer questions that follow.



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i. Identify the breed _____(1mk)

ii. Classify the breed according to the purpose it is kept for (1mk)

_____

iii. Name other three breeds in the class named in (b) above. (3mks)

_____

_____

_____

d) State the colour difference between the Galla and saanen goat breeds. (1marks)

_____

_____

_____

e) Name one goat breed that is reared for

a. Mohair:-_____ ($^1/_2$ marks)

b. meat :_____($^1/_2$ marks)

33. Explain two factors that determine productivity of livestock breeds. (4 marks)

i. _____

ii. _____

34. State two observable traits used to compare cattle productivity. (2 marks)

i. _____

ii. _____

35. State two observable traits used to compare goat productivity. (2 marks)

i. _____

ii. _____

36. Explain two reasons why exotic breeds may fail in some Kenyan areas. (4 marks)

i. _____

ii. _____

37. State two advantages of keeping indigenous breeds. (2 marks)

i. _____

ii. _____

38. State two disadvantages of keeping exotic breeds. (2 marks)

i. _____

ii. _____

39. A group of learners observed livestock breeds in a farm.

a) Suggest four traits they should record. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

b) Explain two ways to ensure accurate observations. (2 marks)

i. _____

ii. _____

40. Describe four steps to take during a field trip to identify cattle breeds. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

41. State two safety precautions when handling pigs during breed observation. (2 marks)

i. _____

ii. _____

42. Explain two methods of distinguishing meat sheep from wool sheep in a farm. (4 marks)

i. _____

ii. _____

43. Describe two ways to assess productivity of dairy goats. (4 marks)

i. _____

ii. _____

44. A farmer wants high milk yield and resistance to disease in goats.

Suggest two suitable breeds and justify your choice. (4 marks)

i. _____

ii. _____

45. A learner compared two breeds of pigs: Landrace and Large White.

a) State two differences in productivity. (2 marks)

_____

_____

_____

b) Suggest one reason for the differences. (2 marks)

_____

_____

46. Explain why crossbreeding may increase livestock productivity. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

47. A farmer noticed low growth rate in local sheep.

a) State two causes. (2 marks)

i. _____

ii. _____

b) Suggest two interventions to improve growth. (2 marks)

i. _____

ii. _____

48. Explain why exotic cattle may perform poorly under harsh Kenyan conditions. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

49. A farmer wants to start a rabbit project for income generation.

a) Suggest two suitable breeds. (2 marks)

i. _____

ii. _____

b) Explain two reasons for choosing them. (2 marks)

i. _____

ii. _____



SUBSTRAND 2.2: ANIMAL HANDLING AND SAFETY

INSTRUCTIONS: Answer ALL questions.

1. Define animal handling. (2 marks)

_____

_____

2. State two forms of animal handling commonly used in farms. (2 marks)

i. _____

ii. _____

3. Explain two reasons why correct handling of animals is important. (2 marks)

i. _____

ii. _____

4. State two inhumane methods of handling domestic animals. (2 marks)

i. _____

ii. _____

5. Explain one effect of overworking draught animals. (2 marks)

_____

_____

6. Explain two consequences of poor transport methods on animals. (4 marks)

iv. _____

v. _____

7. State two ways of humane slaughtering. (2 marks)

vi. _____

vii. _____

8. Describe one inappropriate harnessing method that should be avoided. (2 marks)

_____

_____

_____

9. Give two reasons why beating animals is considered inhumane. (2 marks)

viii. _____

ix. _____

10. Explain two effects of poor castration practices. (4 marks)

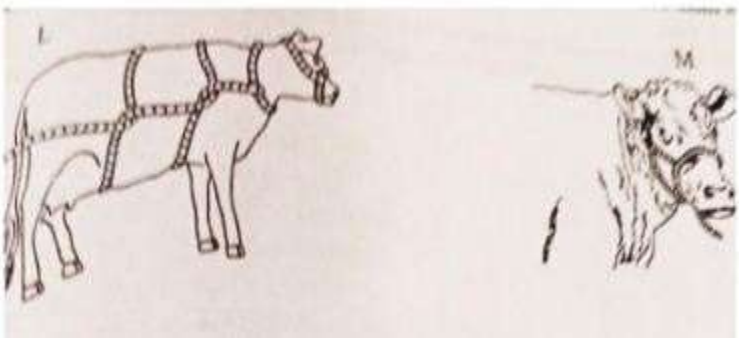
x. _____

xi. _____

xii. _____

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11. The diagram below shows two methods of handling livestock in the farm. Study them and answer the questions that follow.



a. Identify the methods of handling livestock labelled L and M. (1 mark)

_____

b. Give **two** occasions when it may be necessary to carry out the practice labelled L above. (2 marks)

i. _____

ii. _____

c. Give **two** animal conditions under which method L above cannot be used. (2 marks)

i. _____

ii. _____

12. Name two structures used for safe handling of domestic animals. (2 marks)

i. _____

ii. _____

13. State two purposes of restraining chutes. (2 marks)

i. _____

ii. _____

14. Describe one way pens help in animal safety. (2 marks)

_____

_____

15. State two ways crushes are used in cattle handling. (2 marks)

i. _____

ii. _____

16. Explain two advantages of using fences in farms. (4 marks)

i. _____

ii. _____

17. Name two structures used to restrain pigs safely. (2 marks)

i. _____

ii. _____

18. Explain one use of a tethering post. (2 marks)

iii. _____

iv. _____

19. State two benefits of having separate handling areas for different livestock. (2 marks)

v. _____

vi. _____

20. Explain one reason why well-maintained farm structures enhance safety. (2 marks)

_____

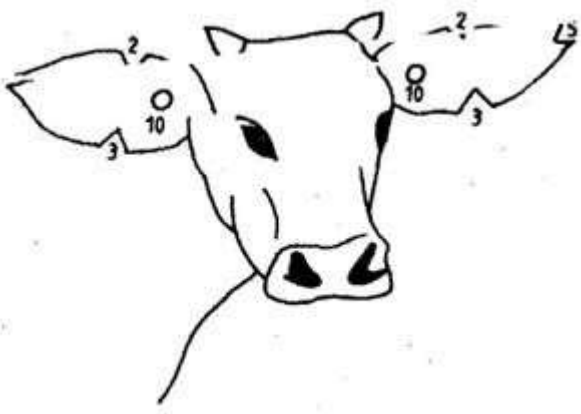
_____

21. Describe two ways proper flooring in animal handling areas prevents injuries. (4 marks)

vii. _____

viii. _____

22. **. a.** The diagram below illustrates a method of identification in livestock production. Study the diagram and answer the questions that follow.



i. Name the type of identification illustrated above (1 mk)

_____

ii. Give the identification number of the animal illustrated in the diagram above(1mk)

_____

iii. Using diagrams illustrate how you can identify animals Nos 24 and 36 using he above method (2 mks)

Animal No 24

Animal No 36

b. If a sow was successfully served on 27th September, 2026, state the date she is likely to have farrowed. (1 mk)

_____

_____

23. The diagram below shows a livestock parasite.



(a) Identify the parasite. (1 mark)

_____

(b) Explain how the parasite can be passed from

(i) Livestock to human beings (1 mark)

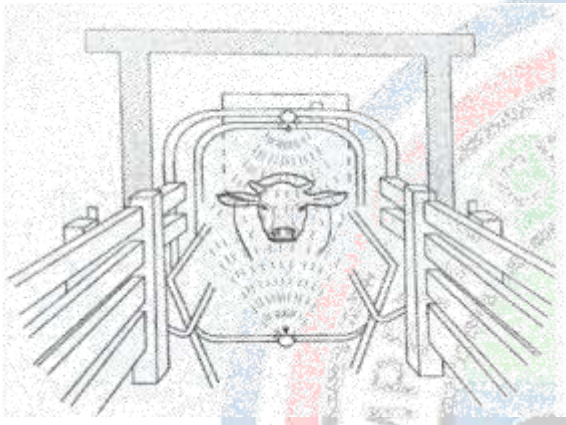
(ii) Human beings to animals (1 mark)

(c) State two control measures for the parasite in a zero-grazing unit. (2 marks)

i. _____

ii. _____

24. The diagram below shows a farm structure. Use it to answer the questions that follow.



a. Identify the practice being carried out. (1 mk)

_____

b. Name the structure in which the practice is being carried out. (1 mk)

_____

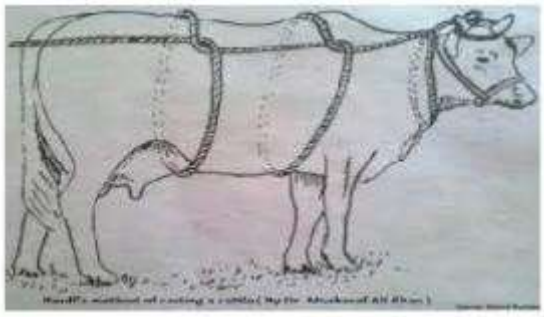
c. Give THREE advantages of the structure above over a plunge dip. (3 mks)

i. _____

ii. _____

iii. _____

25. Study the diagram below and answer the questions that follow



(a) Identify the practice (1 mark)

_____-

(b) Outline three management practices that are usually carried out after restraining an animal (3 marks)

i. _____

ii. _____

(c) Name one precaution observed when carrying out the practice (1 mark)

i. _____

ii. _____

26. Name two tools used to restrain cattle. (2 marks)

iii. _____

iv. _____

27. Name two tools used to restrain goats or sheep. (2 marks)

v. _____

vi. _____

28. Explain one use of a lead stick. (2 marks)

vii. _____

viii. _____

29. Describe two ways a halter improves handling safety. (4 marks)

ix. _____

x. _____

30. State two precautions when using a bull ring. (2 marks)

xi. _____

xii. _____

31. Explain two ways restraining ropes prevent accidents. (4 marks)

xiii. _____

xiv. _____

32. State two reasons why proper tools reduce stress in animals. (2 marks)

xv. _____

xvi. _____

33. Name one tool used for restraining pigs. (1 mark)

_____

_____

34. Explain one effect of using improper tools in animal handling. (2 marks)

_____

_____

35. State two benefits of using appropriate equipment in farms. (2 marks)

xvii. _____

xviii. _____

36. The photographs below show a rearing practice carried out on farm animals. Study them carefully and answer the questions that follow.



a).Name the routine management practice shown above. (1 mark)

b). Name the tool shown above used to carry out the practice. (1 mark)

_____

c).State three reasons for carrying out the practice shown above. (3 marks

i. _____

ii. _____

iii. _____

37. The pictures below show some of the farm tools, observe them and answer the questions that follow.



(a) Identify each of the tools shown above (4 marks)

W……

D……

Y……

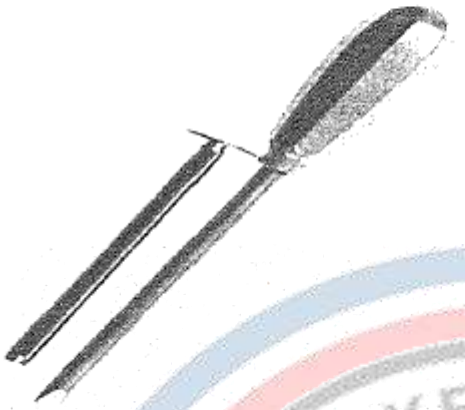
Z……

(b) State the use of the tool labeled Y and W (1 marks)

Y_____

W_____

38. Below are illustrations of equipment used on the farm. Study them carefully and answer the questions that follow.



(a) Identify the set of equipment illustrated above. (1 mark)

_____

(b) State the appropriate use of the set of equipment illustrated above. (1 mark)

_____

(c) Describe the appropriate procedure followed when using the equipment above. (2 marks)

i. _____

ii. _____

(d) Name the tools which are complementary to the tools below. (1 mark)

(i) Elastrator

_____

(ii) Syringe.

_____

39. List **THREE** farm tools used during castration of farm animals. (1½mks)

xix. _____

xx. _____

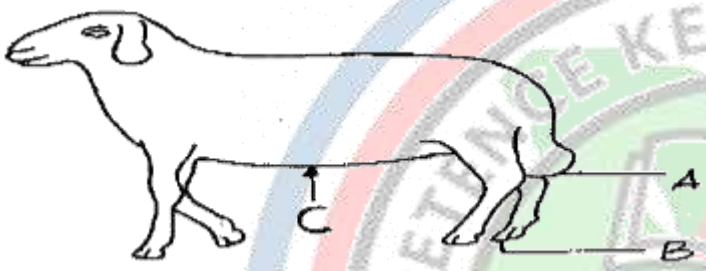
xxi. _____

40. Name the set of tools used for the following farm operations. (1mk)

a. Controlling bloat:_____

b. Restraining an animal during agricultural show exhibition.:_____

41. Below is an illustration of a sheep with some parts labeled A, B and C. Study the diagram and answer questions that follows?



a). State the practices carried out on the part labeled A,B and C (3marks)

A_____

B_____

C_____

b). State two reasons for carrying out the operation on the part labeled A. (1mark)

i. _____

ii. _____

c). Name one tool used for operation carried out on the part labeled A and B (1mark)

i. _____

42. State two ways to ensure the safety of a person handling cattle. (2 marks)

xxii. _____

xxiii. _____

43. Explain two correct positions when restraining a goat. (4 marks)

xxiv. _____

xxv. _____

44. Describe two ways to safely hold animals during examination. (4 marks)

xxvi. _____

xxvii. _____

45. State two precautions to take when working with bulls. (2 marks)

xxviii. _____

xxix. _____

46. Explain two safety measures when handling pigs. (4 marks)

xxx. _____

xxxi. _____

47. Give two reasons why keeping a safe distance from animals is important. (2 marks)

xxxii. _____

xxxiii. _____

48. Explain one reason why handlers should wear protective clothing. (2 marks)

xxxiv. _____

xxxv. _____

49. State two precautions to take when tying animals. (2 marks)

xxxvi. _____

xxxvii. _____

50. Explain one effect of sudden loud noises on animals during handling. (2 marks)

xxviii. _____

xxxix. _____

51. Describe two ways to reduce stress in animals during handling. (4 marks)

xl. _____

xli. _____

52. A farmer observed overloading of draught oxen.

State two effects on animal health. (2 marks)

xlii. _____

xliii. _____

53. Describe two humane methods of transporting livestock. (4 marks)

xliv. _____

xlv. _____

54. A learner visited a farm to observe animal handling.

State four traits to record for safe handling. (4 marks)

xlvi. _____

xlvii. _____

xlviii. _____

xlix. _____

55. Describe two improvements that could be made to farm structures to enhance safety. (4 marks)

l. _____

li. _____

56. State two ways the community can promote animal safety. (2 marks)

lii. _____

liii. _____

57. Explain two consequences of inhumane treatment on productivity. (4 marks)

liv. _____

lv. _____

58. Describe two ways to safely restrain a goat during vaccination. (4 marks)

lvi. _____

lvii. _____

59. A farmer uses improper harnessing.

a) State two risks to the animal. (2 marks)

lviii. _____

lix. _____

b) State two risks to the handler. (2 marks)

lx. _____

lxi. _____

60. Explain two ways observation of animals in the community helps improve handling practices. (4 marks)

i. _____

ii. _____

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SUBSTRAND 2.3: GENERAL ANIMAL HEALTH

INSTRUCTIONS: Answer ALL questions.

DIAGRAM 1: SIGNS OF ILL HEALTH IN ANIMALS (INSERT IMAGE)

1. Define the term animal health. (2 marks)

_____

_____

2. State two benefits of keeping animals healthy. (2 marks)

iii. _____

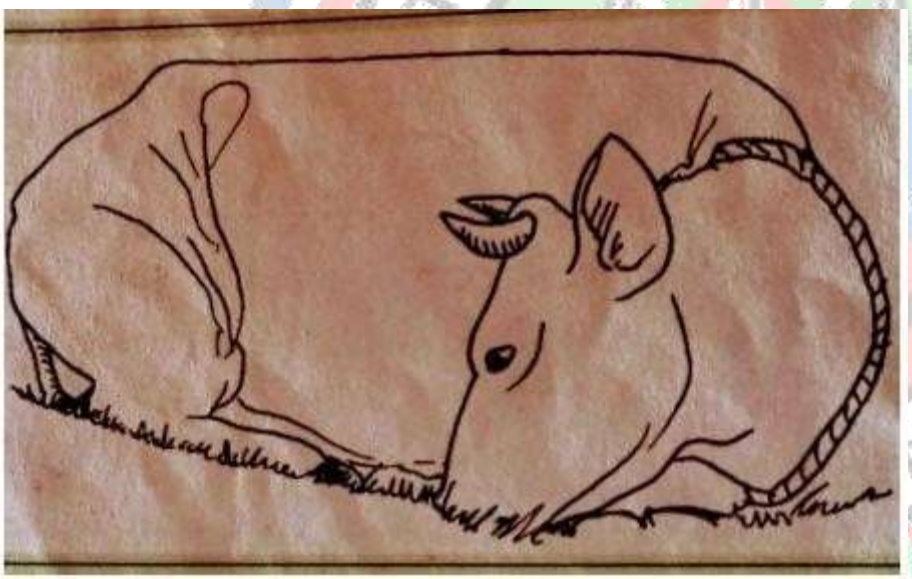
iv. _____

3. Explain two ways healthy animals contribute to increased productivity. (4 marks)

v. _____

vi. _____

4. Study the illustration below showing an animal suffering from a disease and answer the question bellow



(a). Identify the disease the animal is suffering from. (1mk)

_____

(b). What causes the disease shown above? (1mk)

_____

_____

(c). Give three symptoms shown by a cow suffering from the disease above. (3mks)

i. _____

ii. _____

iii. _____

5. Discuss black quarter under the following sub-headings:-

a. Animal affected (1 mk)

_____

_____

b. Casual organism (1 mk)

_____

_____

c. Symptoms of disease (3 mks)

i. _____

ii. _____

iii. _____

d. Control measures (2 mks)

i. _____

ii. _____

iii. _____

6. a. State five symptoms of East Coast Fever (5 marks)

vii. _____

viii. _____

ix. _____

x. _____

xi. _____

b. Give five advantages of using animal power (5 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

c. Give five characteristics of beef cattle breed (5 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

d. Describe the reasons why bees may abscond from a beehive (5 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

7. a) Describe trypanosomiasis disease under the following sub-headings.

i) Causal organism (1 Mk)

_____

ii) Animal attacked (1 Mk)

_____

iii) Symptoms of attacked animals (5 Mks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

iv) Control measures (3 Mks)

i. _____

ii. _____

iii. _____

b) Describe five control measures for cannibalism in poultry (5 Mks)

i. _____

ii. _____

xii. _____

xiii. _____

xiv. _____

(c) Explain the procedure in establishment of foundation in farm buildings (5mks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

8. Below is an illustration of a livestock parasite. Study it and answer questions that follow



(a) Name the parasite (½mk)

_____-

(b) State three symptoms that may be observed in an animal that has been attacked by the above parasite. (1 ½ mks)

i. _____

ii. _____

xv. _____

(c) State the intermediate host of the arasite. (½ mk)

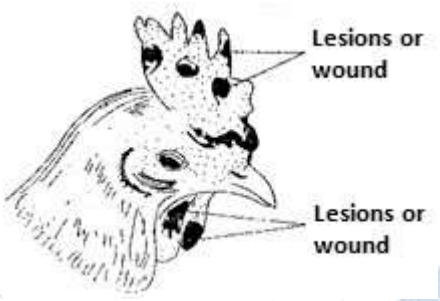
_____

(d) Give two control measures of the above parasite. (2mks)

i. _____

ii. _____

9. The following diagram illustrate symptoms of a disease in poultry. Study it carefully and answer the question that follows.



(a) Identify:

(i) The disease. (½ mark)

_____-

(ii) The causal organism. (½ mark)

_____

(b) State **two** other symptoms of the disease apart from lesion.(2 marks)

i. _____

ii. _____

(c) State **two** control measures for the disease. (2 marks)

i. _____

ii. _____

10. A cow was diagnosed with the following symptoms: swollen feet, animal walking with a limping gait, lameness and pus with rotten smell oozing out of the hooves and animal spending most of time lying down.

a) Suggest the disease the animal was suffering from. (1 mark)

_____

b) Name the possible cause of the disease. (1 mark)

_____

c) Apart from cattle name other two farm animals attacked by the above disease. (2marks)

i. _____

ii. _____

d) State four control methods of the disease. (2marks)

i. _____

ii. _____

iii. _____

iv. _____

11. Give two reasons why animal health is important in dairy production. (2 marks)

i. _____

ii. _____

12. Give two reasons why animal health is important in meat production. (2 marks)

iii. _____

iv. _____

13. Explain two economic benefits of keeping livestock healthy. (4 marks)

v. _____

vi. _____

14. State two social benefits of healthy livestock in a community. (2 marks)

vii. _____

viii. _____

15. Explain one reason why neglecting animal health leads to poor productivity. (2 marks)

ix. _____

x. _____

16. Give two benefits of animal vaccination in livestock production. (2 marks)

xi. _____

xii. _____

17. Explain two reasons why record-keeping is important in maintaining animal health. (4 marks)

xiii. _____

xiv. _____

18. State two general signs of ill health in cattle. (2 marks)

i. _____

ii. _____

19. State two signs of ill health in goats. (2 marks)

i. _____

ii. _____

20. State two signs of ill health in pigs. (2 marks)

iii. _____

iv. _____

21. Explain two behavioral changes in sick animals. (4 marks)

i. _____

ii. _____

22. State two physical signs that indicate poor animal health. (2 marks)

i. _____

ii. _____

23. Explain two signs of internal parasite infestation in sheep. (4 marks)

i. _____

ii. _____

24. State two signs of external parasite infestation in livestock. (2 marks)

i. _____

ii. _____

25. Explain one visual sign of respiratory infection in animals. (2 marks)

_____

_____

26. State two signs of malnutrition in livestock. (2 marks)

i. _____

ii. _____

27. Explain two ways to differentiate minor illnesses from severe illnesses. (4 marks)

i. _____

ii. _____

21. Name two general control measures of ill health in livestock. (2 marks)

i. _____

ii. _____

22. Explain two ways vaccination helps prevent animal diseases. (4 marks)

i. _____

ii. _____

23. State two hygiene practices to prevent livestock diseases. (2 marks)

i. _____

ii. _____

24. Explain two ways quarantine helps in disease control. (4 marks)

i. _____

ii. _____

25. State two ways proper nutrition contributes to disease prevention. (2 marks)

i. _____

ii. _____

26. Explain two benefits of regular deworming in livestock. (4 marks)

i. _____

ii. _____

27. State two methods of controlling external parasites in animals. (2 marks)

i. _____

ii. _____

28. Explain one method of controlling vector-borne diseases in livestock. (2 marks)

_____

_____

29. State two ways farmers can prevent mastitis in dairy cows. (2 marks)

i. _____

ii. _____

30. Explain two ways to minimize stress in animals to prevent disease. (4 marks)

i. _____

ii. _____

31. State two routine practices that maintain livestock health. (2 marks)

i. _____

ii. _____

32. Explain two reasons for providing clean water to animals. (4 marks)

i. _____

ii. _____

33. Describe two benefits of good housing in animal health. (4 marks)

i. _____

ii. _____

34. State two benefits of regular observation of animals. (2 marks)

i. _____

ii. _____

35. Explain two reasons why proper feeding ensures good health. (4 marks)

i. _____

ii. _____

36. State two benefits of maintaining proper stocking density. (2 marks)

i. _____

ii. _____

37. Explain two benefits of record-keeping on treatments given to livestock. (4 marks)

i. _____

ii. _____

38. State two practices used to prevent foot rot in livestock. (2 marks)

iii. _____

iv. _____

39. Explain two benefits of separating sick animals from healthy ones. (4 marks)

i. _____

ii. _____

40. Describe two advantages of using proper tools and equipment in maintaining animal health. (4 marks)

i. _____

ii. _____

41. During a farm visit, learners observed a sick cow.

a) State four signs they should record. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

b) Suggest two immediate actions to improve the cow's health. (2 marks)

i. _____

ii. _____

42. Explain two ways the community can promote general animal health. (4 marks)

i. _____

ii. _____

43. Describe four steps in observing livestock for early signs of ill health. (4 marks)

i. _____

ii. _____

44. Explain two preventive measures for internal parasites in goats. (4 marks)

i. _____

ii. _____

45. Explain two preventive measures for external parasites in cattle. (4 marks)

i. _____

ii. _____

46. Describe two practices that maintain hygiene in livestock housing. (4 marks)

i. _____

ii. _____

47. State two benefits of using clean equipment during milking. (2 marks)

i. _____

ii. _____

48. Explain two ways overfeeding may affect animal health. (4 marks)

i. _____

ii. _____

49. A farmer vaccinates pigs against common diseases.

a) State two reasons for doing this. (2 marks)

i. _____

ii. _____

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SUBSTRAND 2.4: BEEKEEPING

INSTRUCTIONS: Answer ALL questions.

1. Define the term apiary. (2 marks)

_____

_____

2. State two purposes of an apiary. (2 marks)

i. _____

ii. _____

3. Explain two factors to consider when selecting a site for an apiary. (4 marks)

i. _____

ii. _____

4. State two reasons why bees should have access to water near the hive. (2 marks)

i. _____

ii. _____

5. Explain two reasons for planting bee-friendly flowers near the apiary. (4 marks)

i. _____

ii. _____

6. State two advantages of shading the hives. (2 marks)

i. _____

ii. _____

7. Explain two reasons for having hives away from human habitation. (4 marks)

iii. _____

iv. _____

8. State two factors to consider regarding wind and hive placement. (2 marks)

i. _____

ii. _____

9. Explain two reasons for spacing hives apart. (4 marks)

v. _____

vi. _____

10. State two precautions to take when siting hives in agricultural farms. (2 marks)

vii. _____

viii. _____

11. Describe two ways to protect hives from predators. (4 marks)

ix. _____

x. _____

12. State two reasons why the flight path should be clear. (2 marks)

xi. _____

xii. _____

13. Explain two effects of poorly sited hives on honey production. (4 marks)

xiii. _____

xiv. _____

14. State two environmental factors that affect hive productivity. (2 marks)

xv. _____

xvi. _____

15. Explain two economic benefits of proper apiary siting. (4 marks)

xvii. _____

xviii. _____

16. Define bee colony. (2 marks)

_____

_____

17. Name three components of a bee colony. (3 marks)

xix. _____

xx. _____

xxi. _____

18. Describe four steps involved in stocking a new hive. (4 marks)

xxii. _____

xxiii. _____

xxiv. _____

xxv. _____

19. Explain two reasons for inspecting a newly stocked hive. (4 marks)

xxvi. _____

xxvii. _____

20. State two methods of introducing bees to a hive. (2 marks)

xxviii. _____

xxix. _____

21. Explain one reason why the queen bee should be introduced first. (2 marks)

_____

_____

22. State two precautions when handling bees during stocking. (2 marks)

xxx. _____

xxxi. _____

23. Explain two signs that indicate the hive has accepted the new bees. (4 marks)

xxxii. _____

xxxiii. _____

24. Describe two ways to prevent swarming in a newly stocked hive. (4 marks)

xxxiv. _____

xxxv. _____

25. State two tools used when stocking a hive. (2 marks)

xxxvi. _____

xxxvii. _____

26. State two reasons for wearing protective clothing while working with bees. (2 marks)

xxviii. _____

xxxix. _____

27. Explain two uses of a bee smoker. (4 marks)

xl. _____

xli. _____

28. State two hygiene practices in apiary management. (2 marks)

xlii. _____

xliii. _____

29. Explain two reasons why hive inspections should be regular. (4 marks)

xliv. _____

xlv. _____

30. Describe two ways to control pests in an apiary. (4 marks)

xlvi. _____

xlvii. _____

31. State two advantages of replacing old frames regularly. (2 marks)

xlviii. _____

xlix. _____

32. Explain two reasons why colonies should be monitored for diseases. (4 marks)

l. _____

li. _____

33. State two methods to prevent robber bees from attacking hives. (2 marks)

i. _____

ii. _____

34. Explain two reasons for maintaining good records in apiary management. (4 marks)

i. _____

ii. _____

35. Describe two ways to avoid damaging the hive during inspections. (4 marks)

i. _____

ii. _____

36. State two precautions when opening hives on windy days. (2 marks)

i. _____

ii. _____

37. Explain two benefits of rotating hives periodically in an apiary. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

38. State two environmental hazards that can affect bee safety. (2 marks)

i. _____

ii. _____

39. Explain two reasons why young bees should be handled carefully. (4 marks)

i. _____

ii. _____

40. Describe two ways to ensure safety of people working in the apiary. (4 marks)

i. _____

ii. _____

41. State two purposes of harvesting honey. (2 marks)

i. _____

ii. _____

42. Describe four steps in harvesting honey safely. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

43. State two tools used in honey harvesting. (2 marks)

i. _____

ii. _____

44. Explain two precautions to avoid harming bees during harvesting. (4 marks)

i. _____

ii. _____

45. Describe two methods of extracting honey from the comb. (4 marks)

i. _____

ii. _____

46. State two safety practices when using a honey extractor. (2 marks)

i. _____

ii. _____

47. Explain two reasons for filtering honey before storage. (4 marks)

i. _____

ii. _____

48. State two ways harvested honey can be stored safely. (2 marks)

i. _____

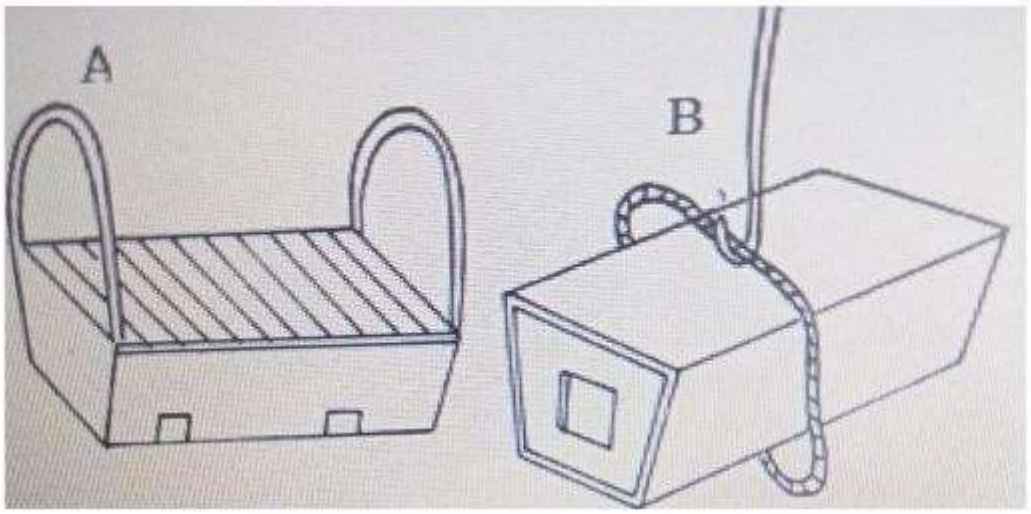
ii. _____

49. Describe two indicators that a frame is ready for harvesting. (4 marks)

i. _____

ii. _____

50. The diagram labelled A and B below shows two types of beehives. Study them carefully and answer the questions that follow.



a. Identify the types of bee hives A and B. (2 marks)

A_____.

B_____.

b. State two advantages of A over B. (2 marks)

i. _____

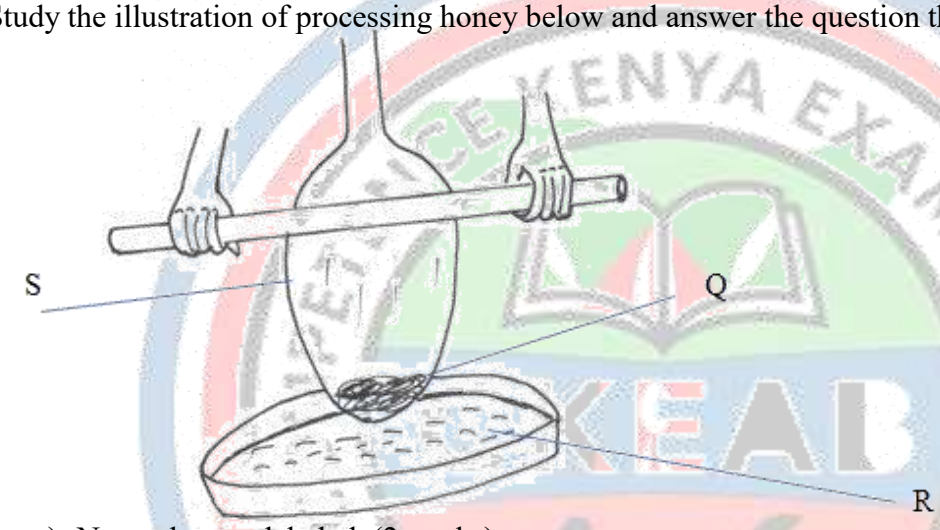
ii. _____

c. Give one maintenance practice carried out on hive A. (1 marks)

_____

_____

51. Study the illustration of processing honey below and answer the question that follow.



a) Name the part labeled. (2 marks)

Q:_____.

R:_____.

b) State the function of part labeled S. (1 mark)

_____

_____

c) State four equipments used for harvesting honey (4 marks)

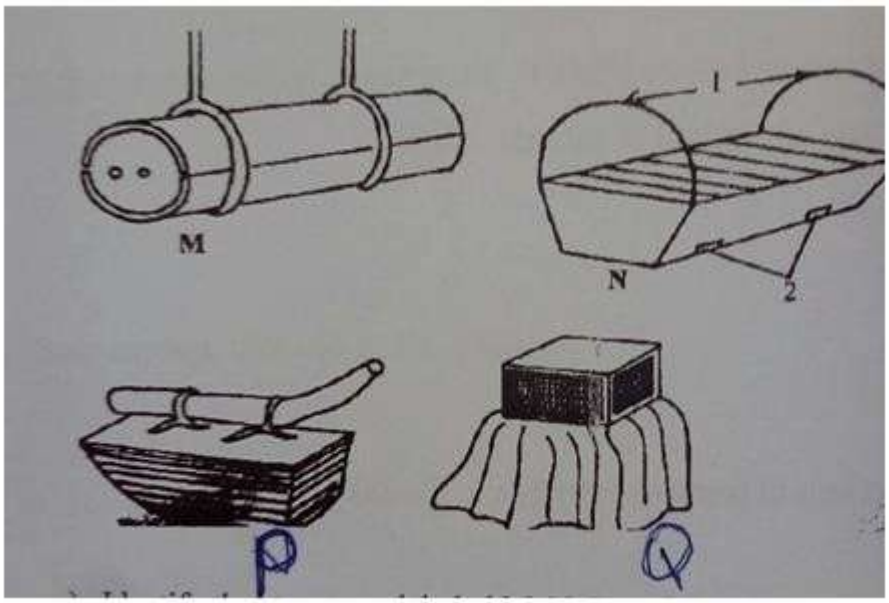
i. _____

ii. _____

iii. _____

iv. _____

52. The diagrams M, N, P, and Q show some structure used in apiculture.



a) Identify the structures labeled M, N, P, and Q. (2mks)

M – _____.

N – _____.

P – _____.

Q – _____.

b) State the uses of P and Q. (2mks)

P – _____.

Q – _____.

53.

a. Describe the reasons why bees may abscond from a beehive. (10 marks)

i. _____

ii. _____

iii. _____

iv. _____

v. _____

vi. _____

vii. _____

viii. _____

ix. _____

x. _____

xi. _____

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b. Describe the factors considered in siting an apiary on the farm. (10 marks)

i. _____

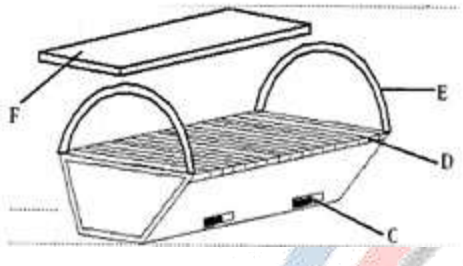
ii. _____

iii. _____

iv. _____

v. _____

54. Below is a diagram of an equipment used in Agriculture. Study it carefully and answer the questions that follow.



a. Identify the equipment. (1 mark)

_____

b. Name the parts labelled C, D and F. (1½ mark)

C_____

D_____

F_____

c. i. State one role played by the parts labelled C, D, E and F. (4 marks)

C_____

D_____

E_____

F_____

ii. Name other two types of equipments which serve the same function as the one illustrated above (1 mark)

_____

_____

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SUBSTRAND 2.5: ANIMAL REARING PROJECT

INSTRUCTIONS: Answer ALL questions.

1. Define the term animal rearing project. (2 marks)

_____

_____

2. State two purposes of having an animal rearing project in school. (2 marks)

i. _____

ii. _____

3. Explain two reasons for selecting a suitable animal for the project. (4 marks)

i. _____

ii. _____

4. State two factors to consider when selecting a site for the project. (2 marks)

iii. _____

iv. _____

5. Explain two reasons why project planning is important. (4 marks)

i. _____

ii. _____

6. State two types of animals suitable for school rearing projects. (2 marks)

iii. _____

iv. _____

7. Explain two benefits of having a project template. (4 marks)

i. _____

ii. _____

8. State two records that should be kept in an animal project. (2 marks)

i. _____

ii. _____

9. Describe two ways to involve learners in project planning. (4 marks)

i. _____

ii. _____

10. State two reasons why observing similar projects is helpful before starting. (2 marks)

i. _____

ii. _____

11. Explain two steps in developing the objectives of the project. (4 marks)

i. _____

ii. _____

12. State two materials needed for setting up an animal rearing project. (2 marks)

i. _____

ii. _____

13. Describe two considerations when choosing the animal breed for the project. (4 marks)

i. _____

ii. _____

14. Explain two reasons for including a timeline in the project plan. (4 marks)

i. _____

ii. _____

15. State two benefits of conducting a feasibility study before starting the project. (2 marks)

i. _____

ii. _____

16. Define project budget. (2 marks)

_____

_____

17. State two purposes of preparing a budget for an animal rearing project. (2 marks)

i. _____

ii. _____

18. List two types of costs involved in animal rearing projects. (2 marks)

i. _____

ii. _____

19. Explain two reasons why accurate budgeting is important. (4 marks)

i. _____

ii. _____

20. State two items that must be included in a feeding budget. (2 marks)

i. _____

ii. _____

21. Explain two factors affecting the cost of animal housing. (4 marks)

i. _____

ii. _____

22. State two ways to reduce project costs without affecting animal welfare. (2 marks)

i. _____

ii. _____

23. Describe two ways to plan for unexpected expenses. (4 marks)

i. _____

ii. _____

24. State two financial records to maintain during the project. (2 marks)

i. _____

ii. _____

25. Explain two advantages of tracking project expenditure. (4 marks)

i. _____

ii. _____

26. Describe two steps to prepare the site for the animal project. (4 marks)

i. _____

ii. _____

27. State two precautions when installing animal housing. (2 marks)

i. _____

ii. _____

28. Explain two reasons for providing clean water to animals. (4 marks)

i. _____

ii. _____

29. State two feeding practices for a small-scale project. (2 marks)

i. _____

ii. _____

30. Explain two ways to ensure the health of newly stocked animals. (4 marks)

i. _____

ii. _____

31. State two records to keep during the stocking phase. (2 marks)

i. _____

ii. _____

32. Describe two tasks involved in daily management of animals. (4 marks)

i. _____

ii. _____

33. Explain two ways to avoid overcrowding in the project. (4 marks)

i. _____

ii. _____

34. State two advantages of using routine duty schedules. (2 marks)

i. _____

ii. _____

35. Explain two methods for monitoring growth and production of animals. (4 marks)

i. _____

ii. _____

36. State two hygiene practices for the project. (2 marks)

i. _____

ii. _____

37. Describe two ways to prevent diseases in the project. (4 marks)

i. _____

ii. _____

38. Explain two benefits of regular observation of animals. (4 marks)

i. _____

ii. _____

39. State two ways to handle manure safely. (2 marks)

i. _____

ii. _____

40. Explain two methods of controlling pests in the animal project. (4 marks)

i. _____

ii. _____

41. State two feeding practices that promote health. (2 marks)

i. _____

ii. _____

42. Explain two reasons why records should be updated daily. (4 marks)

i. _____

ii. _____

43. State two benefits of maintaining the animal housing clean. (2 marks)

i. _____

ii. _____

44. Explain two methods for checking the health status of animals. (4 marks)

i. _____

ii. _____

45. Describe two benefits of observing animal behavior during routine management. (4 marks)

i. _____

ii. _____

46. State two indicators of success in an animal rearing project. (2 marks)

i. _____

ii. _____

47. Explain two ways to evaluate project performance. (4 marks)

i. _____

ii. _____

48. State two ways to identify areas that need improvement. (2 marks)

i. _____

ii. _____

49. Explain two methods for making class presentations on project evaluation. (4 marks)

i. _____

ii. _____

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STRAND 3.0: AGRICULTURAL TECHNOLOGIES AND ENTREPRENEURSHIP

SUBSTRAND 3.1: TOOLS AND EQUIPMENT

INSTRUCTIONS: Answer ALL questions.

1. Define the term agricultural tools and equipment. (2 marks)

_____

_____

2. State two gardening tools used in crop production. (2 marks)

i. _____

ii. _____

3. State two tools used in livestock production. (2 marks)

i. _____

ii. _____

4. Identify two assembling/disassembling tools used on farms. (2 marks)

i. _____

ii. _____

5. Explain two reasons why it is important to identify the correct tool for a task. (4 marks)

i. _____

ii. _____

6. State two hand tools commonly used in small-scale farming. (2 marks)

i. _____

ii. _____

7. State two mechanical tools used on a farm. (2 marks)

i. _____

ii. _____

8. Explain two differences between hand tools and mechanical tools. (4 marks)

Hand tools	Mechanical tools

9. Identify two cutting tools used in crop management. (2 marks)

i. _____

ii. _____

10. Explain two purposes of a wheelbarrow in farm work. (4 marks)

i. _____

ii. _____

11. State two tools used in soil preparation. (2 marks)

i. _____

ii. _____

12. Explain two functions of a watering can and garden sprayer. (4 marks)

i. _____

ii. _____

13. Identify two tools used in planting. (2 marks)

i. _____

ii. _____

14. State two tools used in harvesting crops. (2 marks)

i. _____

ii. _____

15. Explain two tools used for pruning and trimming. (4 marks)

i. _____

ii. _____

16. Describe two ways to use a hoe for land preparation. (4 marks)

i. _____

ii. _____

17. Explain two steps in planting seedlings using a trowel. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

18. State two precautions when using a sickle. (2 marks)

i. _____

ii. _____

19. Describe two ways to use a wheelbarrow safely. (4 marks)

i. _____

ii. _____

20. Explain two uses of a watering can in crop production. (4 marks)

i. _____

ii. _____

21. State two ways to safely use pruning shears. (2 marks)

i. _____

ii. _____

22. Describe two steps in applying top dressing using a hand spreader. (4 marks)

i. _____

ii. _____

23. Explain two tasks that can be carried out using a spade. (4 marks)

i. _____

ii. _____

24. State two methods of using a rake to prepare seedbeds. (2 marks)

i. _____

ii. _____

25. Explain two ways to safely use hand tools in livestock management. (4 marks)

i. _____

ii. _____

26. Explain two reasons why tools should be cleaned after use. (4 marks)

i. _____

ii. _____

27. State two tools that require sharpening before use. (2 marks)

i. _____

ii. _____

28. Describe two methods of preventing rust on farm tools. (4 marks)

i. _____

ii. _____

29. State two ways to lubricate moving parts of equipment. (2 marks)

i. _____

ii. _____

30. Explain two reasons for replacing worn-out parts of farm tools. (4 marks)

i. _____

ii. _____

31. Describe two methods for storing tools to maintain them. (4 marks)

i. _____

ii. _____

32. State two maintenance practices for a wheelbarrow. (2 marks)

i. _____

ii. _____

33. Explain two benefits of painting metal tools. (4 marks)

i. _____

ii. _____

34. State two signs that a tool requires maintenance. (2 marks)

i. _____

ii. _____

35. Describe two safety precautions during maintenance of tools and equipment. (4 marks)

i. _____

ii. _____

36. State two personal protective equipment (PPE) used when handling tools. (2 marks)

i. _____

ii. _____

37. Explain two reasons why PPE is important in agriculture. (4 marks)

i. _____

ii. _____

38. State two precautions when using sharp tools. (2 marks)

i. _____

ii. _____

39. Explain two reasons why tools should be stored safely. (4 marks)

iii. _____

iv. _____

40. State two ways to prevent accidents while using mechanical tools. (2 marks)

i. _____

ii. _____

41. Describe two ways to maintain a safe working distance during farm work. (4 marks)

i. _____

ii. _____

42. State two reasons why training is important before using tools. (2 marks)

i. _____

ii. _____

43. Explain two methods to avoid fatigue when using hand tools. (4 marks)

i. _____

ii. _____

44. State two ways to prevent slips and falls when using farm tools. (2 marks)

i. _____

ii. _____

45. Explain two reasons for inspecting tools before use. (4 marks)

i. _____

ii. _____

46. State two benefits of maintaining farm tools in good condition. (2 marks)

i. _____

ii. _____

47. Explain two reasons why maintenance improves work efficiency. (4 marks)

i. _____

ii. _____

48. State two consequences of neglecting tool maintenance. (2 marks)

i. _____

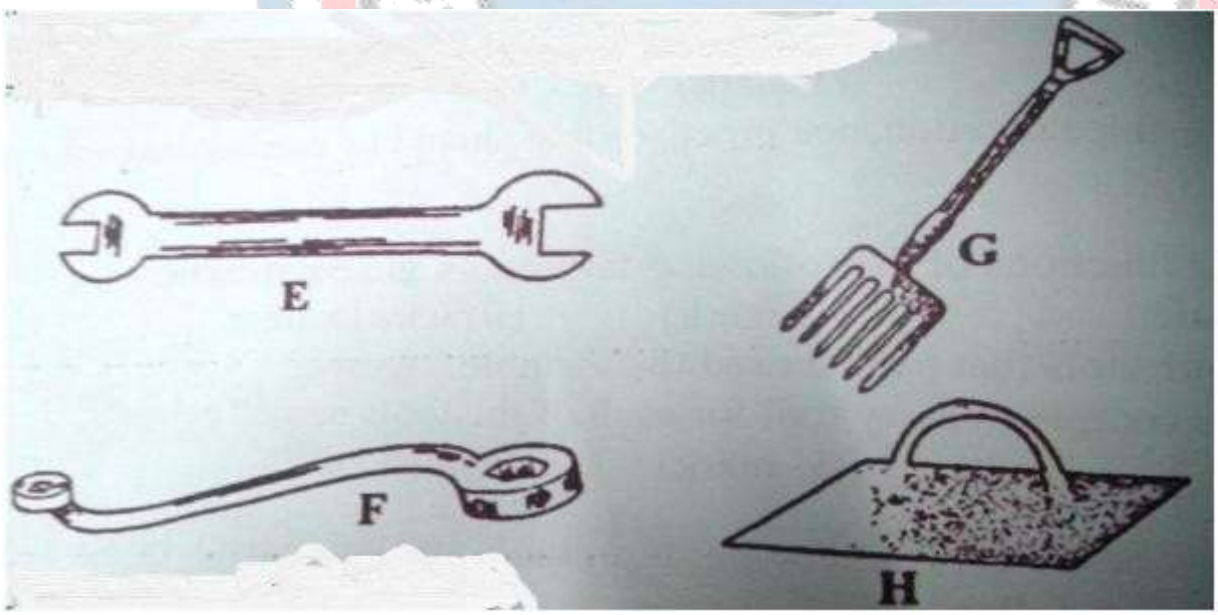
ii. _____

49. Explain two ways proper tool maintenance contributes to safety. (4 marks)

i. _____

ii. _____

50. The diagram below represents farm tools and equipment.



a). Identify the tools labeled E and F (2 mks)

E_____

F_____

b). State **one** advantage of tool labeled F has over E. (1mk)

_____

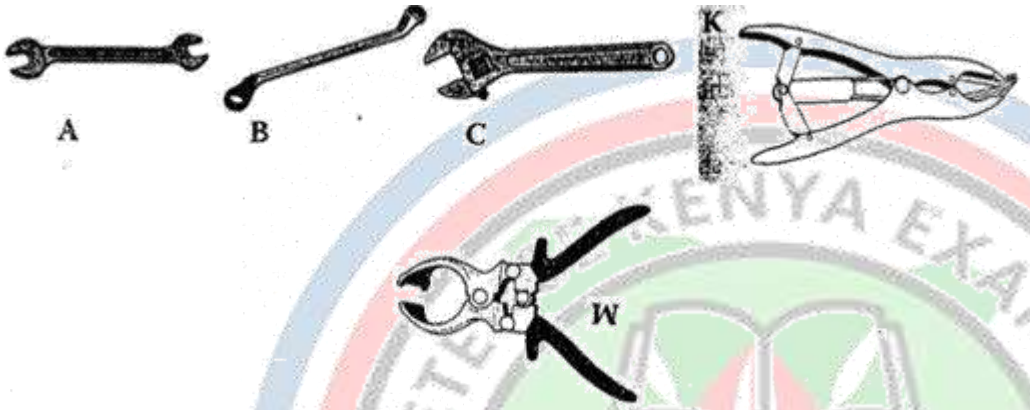
_____

c). State **one** use of each of the tool labeled F and G. (2mks)

F:_____

G:_____

51. The diagrams below show some farm tools. Study them and answer the question that follow.



a) Name the tools. (2 marks)

1. A……
2. B……
3. C……
4. W……

b) State the functional differences between tools K and W. (1mark)

K_____

W_____

c) What advantage does C have over A and B? (1 mark)

_____

_____

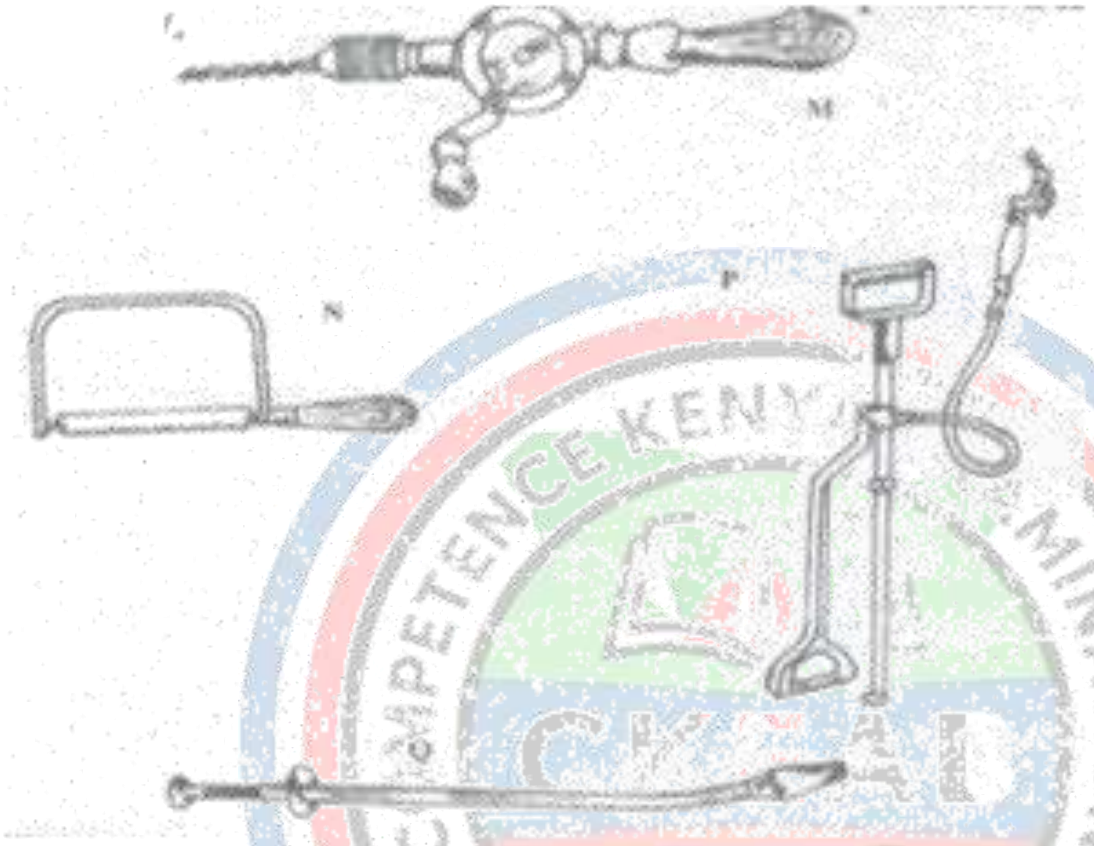
_____

d) State **one** common maintenance practice carried out tool C and W. (1 mark)

_____

_____

52. The diagram below represents some farm tools and equipment. Study them and answer the questions that follow



(a) Identify the tools labeled N and P (2mks)

N_____

P_____

(b) State one use of each of the tools labeled M and Q (2mks)

i. _____

ii. _____

(c) Explain three maintenance practice carried out on the equipment labeled P (3mks)

iii. _____

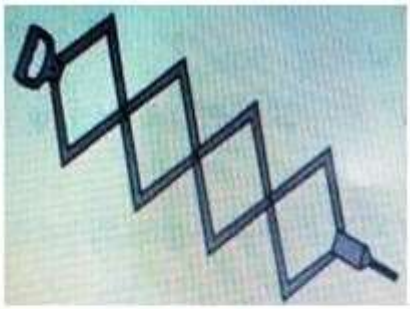
iv. _____

v. _____

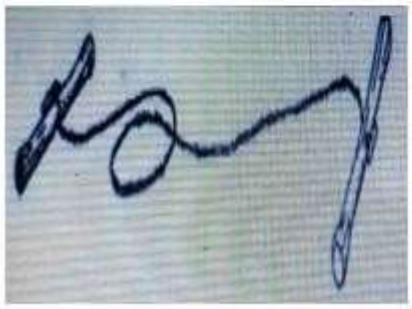
53. The diagram below represents farm tools and equipment



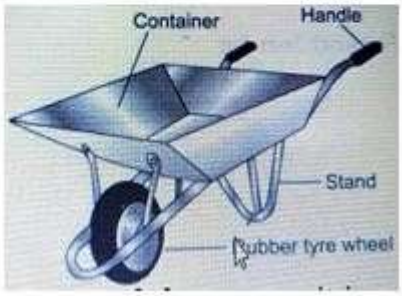
F



E



G



H

a) Identify tools labeled E, F, G and H (2 mks)

E_____-

F_____

G_____

H_____

b) State one use of the tool labelled F [1 mk]

_____

_____

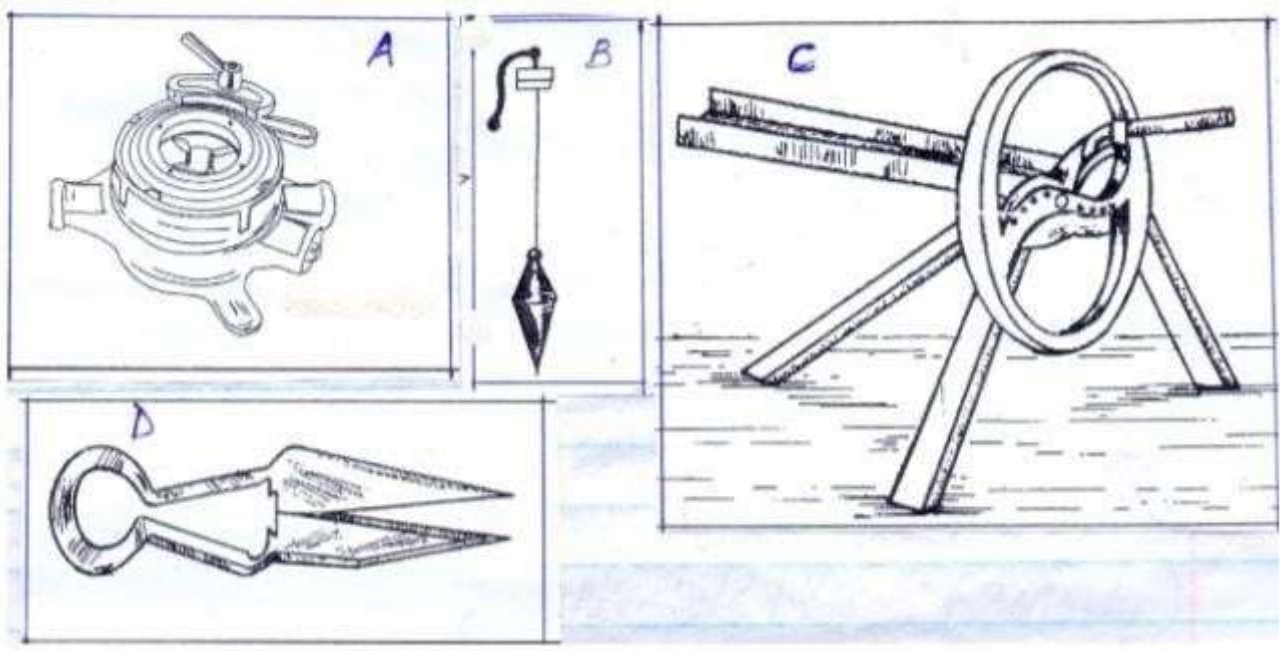
c) State two maintenance practices carried out in H (2 mks)

i. _____

ii. _____

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54. The diagrams below represent some farm tools and equipment. Study them and answer the questions that follow.



a. Identify the tools labeled A and B [2marks]

A_____

B_____

b. State one use of each of the tools labeled C and D [2marks]

C_____

D_____

c. Explain one maintenance practice carried out on tool D [1mk.]

_____

_____

55. The diagrams below shows farm tools. Study them and answer the questions that follow.



a) Identify tool J and K (2 marks)

J_____ K_____

b) Classify the tools under woodwork tools and equipment (2 marks)

_____

_____

_____

c) State two uses of the tools shown above (2 marks)

i. _____

ii. _____

56. The diagrams below show some garden tools. Use them to answer the questions that follow.



Tool A



Tool B

a) Identify the tools

A_____

B_____

b) State the field two conditions of the field that tool B would be more suitable to be used. (2mks)

i. _____

ii. _____

57. Below are illustrations of farm tools and equipment.



a) Identify the tool labelled A and C (2 marks)

A_____ C_____

b) State the advantage of tool B over tool C (1 mark)

_____

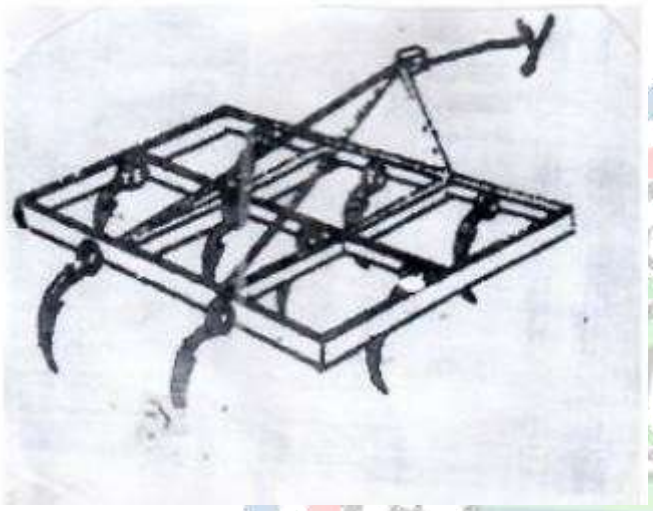
_____

c) State two maintenance practices carried out on tool labelled B. (2 marks)

i. _____

ii. _____

58. Below is a diagram illustrating a farm implement. Study it and answer the questions that follow.



(a) Identify the implement. (1mk)

_____

(b) State:

(i) The role of the part labelled Y. (1mk)

_____

_____

(ii) **Three** uses of the implement on the farm (3mks)

i. _____

ii. _____

iii. _____

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(c) List **two** maintenance practices carried out on the implement. (2mks)

i. _____

ii. _____

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SUBSTRAND 3.2: PRODUCT PROCESSING AND VALUE ADDITION

INSTRUCTIONS: Answer ALL questions.

1. Define value addition in agriculture. (2 marks)

_____

_____

2. State two purposes of adding value to agricultural produce. (2 marks)

i. _____

ii. _____

3. Suggest two methods of value addition for fruits. (2 marks)

i. _____

ii. _____

4. Suggest two methods of value addition for cereals. (2 marks)

i. _____

ii. _____

5. Suggest two methods of value addition for tubers. (2 marks)

i. _____

ii. _____

6. Suggest two methods of value addition for vegetables. (2 marks)

i. _____

ii. _____

7. Suggest two methods of value addition for milk. (2 marks)

i. _____

ii. _____

8. Suggest two methods of value addition for honey. (2 marks)

i. _____

ii. _____

9. Explain two reasons for carrying out value addition. (4 marks)

i. _____

ii. _____

10. State two products that can be made from potatoes through value addition. (2 marks)

i. _____

ii. _____

11. State two products that can be made from cereals through value addition. (2 marks)

i. _____

ii. _____

12. Suggest two products that can be made from meat through value addition. (2 marks)

i. _____

ii. _____

13. Explain two reasons why packaging adds value to agricultural products. (4 marks)

i. _____

ii. _____

14. Suggest two home-based packaging techniques for processed products. (2 marks)

i. _____

ii. _____

15. Explain two benefits of value addition to farmers. (4 marks)

i. _____

ii. _____

16. State two plant origin products suitable for processing. (2 marks)

i. _____

ii. _____

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17. Describe four steps involved in processing fruits into juice. (4 marks)

i. _____

ii. _____

18. Describe four steps involved in making marmalade. (4 marks)

i. _____

ii. _____

19. Describe four steps involved in producing crisps from tubers. (4 marks)

i. _____

ii. _____

20. Explain two reasons for washing and sorting produce before processing. (4 marks)

i. _____

ii. _____

21. State two pieces of equipment used in plant produce processing. (2 marks)

i. _____

ii. _____

22. Explain two safety precautions when processing plant products. (4 marks)

i. _____

ii. _____

23. Describe two methods of drying plant produce. (4 marks)

i. _____

ii. _____

24. Explain two ways to preserve processed plant products for longer shelf life. (4 marks)

i. _____

ii. _____

25. Suggest two plant-based products that can be processed and sold locally. (2 marks)

i. _____

ii. _____

26. State two animal origin products suitable for processing. (2 marks)

i. _____

ii. _____

27. Describe four steps involved in processing milk into butter. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

28. Describe four steps involved in honey extraction. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

29. Explain two reasons for pasteurizing milk before sale. (4 marks)

i. _____

ii. _____

30. State two products that can be processed from meat. (2 marks)

i. _____

ii. _____

31. Describe two methods of preserving meat for long storage. (4 marks)

i. _____

ii. _____

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32. State two tools/equipment used in processing hides and skins. (2 marks)

i. _____

ii. _____

33. Explain two precautions when processing honey. (4 marks)

i. _____

ii. _____

34. Describe two steps in processing fish for market. (4 marks)

i. _____

ii. _____

35. Explain two benefits of processing animal origin products. (4 marks)

i. _____

ii. _____

36. Define branding in agricultural products. (2 marks)

i. _____

ii. _____

37. State two purposes of branding processed agricultural products. (2 marks)

i. _____

ii. _____

38. Describe two methods of packaging plant-based products. (4 marks)

i. _____

ii. _____

39. Describe two methods of packaging animal-based products. (4 marks)

i. _____

ii. _____

40. Explain two ways packaging affects product shelf-life. (4 marks)

i. _____

ii. _____

41. State two pieces of equipment used in home-based packaging. (2 marks)

i. _____

ii. _____

42. Suggest two innovative ways of labeling products. (2 marks)

i. _____

ii. _____

43. Explain two ways packaging improves marketability. (4 marks)

i. _____

ii. _____

44. Describe two safety precautions during packaging. (4 marks)

i. _____

ii. _____

45. Explain two advantages of attractive packaging for sales. (4 marks)

i. _____

ii. _____

46. State two ethical concerns in processing agricultural produce. (2 marks)

i. _____

ii. _____

47. Explain two reasons why using expired additives is unethical. (4 marks)

i. _____

ii. _____

48. State two consequences of mislabeling products. (2 marks)

i. _____

ii. _____

49. Explain two ways to ensure fairness and honesty in product pricing. (4 marks)

i. _____

ii. _____

SUBSTRAND 3.3: ESTABLISHING AGRICULTURAL ENTERPRISE

1. Define the term factors of production. (2 marks)

   _____

   _____

2. State two types of resources required for agricultural production. (2 marks)

   i._____

   ii._____

3. Describe two roles of land/space in an agricultural enterprise. (4 marks)

   i._____

   ii._____

4. State two roles of labour in an agricultural enterprise. (2 marks)

   i._____

   ii._____

5. Explain two ways entrepreneurship contributes to agricultural enterprise. (4 marks)

   i._____

   ii._____

6. State two forms of capital needed to establish an agricultural enterprise. (2 marks)

   i._____

   ii._____

7. Explain two reasons why land location is important in enterprise selection. (4 marks)

   i._____

   ii._____

8. Describe two qualities of an effective entrepreneur in agriculture. (4 marks)

   i._____

   ii._____

9. State two ways labour can be organized in agricultural enterprises. (2 marks)

i. _____

ii. _____

10. Explain two factors affecting the availability of capital in an enterprise. (4 marks)

i. _____

ii. _____

11. Describe two differences between physical capital and human capital. (4 marks)

i. _____

ii. _____

12. State two benefits of combining all factors of production effectively. (2 marks)

i. _____

ii. _____

13. Explain two reasons for having sufficient land area for an agricultural enterprise. (4 marks)

i. _____

ii. _____

14. State two challenges of inadequate labour in agricultural enterprises. (2 marks)

i. _____

ii. _____

15. Describe two ways entrepreneurship influences productivity in agricultural projects. (4 marks)

i. _____

ii. _____

16. Define capital in an agricultural context. (2 marks)

_____

. _____

17. State two sources of capital for starting an agricultural enterprise. (2 marks)

i. _____

ii. _____

18. Explain two ways borrowing can be used to acquire capital. (4 marks)

i. _____

ii. _____

19. State two methods of saving for capital accumulation. (2 marks)

i. _____

ii. _____

20. Explain two reasons why disposing of assets can help raise capital. (4 marks)

i. _____

ii. _____

21. State two sources of grants or donations for agricultural enterprises. (2 marks)

i. _____

ii. _____

22. Explain two advantages of using personal savings as capital. (4 marks)

i. _____

ii. _____

23. State two precautions when borrowing capital. (2 marks)

i. _____

ii. _____

24. Describe two challenges of acquiring capital for agricultural enterprise. (4 marks)

i. _____

ii. _____

25. Explain two ways to combine different sources of capital effectively. (4 marks)

i. _____

ii. _____

26. State two factors to consider when selecting an agricultural enterprise. (2 marks)

i. _____

ii. _____

27. Explain two ways climate affects enterprise selection. (4 marks)

i. _____

ii. _____

28. State two considerations of market demand in selecting an enterprise. (2 marks)

i. _____

ii. _____

29. Explain two reasons why soil type is important in selecting an enterprise. (4 marks)

i. _____

ii. _____

30. State two considerations of labour availability when selecting enterprise. (2 marks)

i. _____

ii. _____

31. Explain two ways technology affects enterprise selection. (4 marks)

i. _____

ii. _____

32. Describe two environmental considerations when selecting enterprise. (4 marks)

i. _____

ii. _____

33. State two examples of enterprises suitable for small-scale farms. (2 marks)

i. _____

ii. _____

34. Explain two reasons why financial resources influence enterprise selection. (4 marks)

i. _____

ii. _____

35. State two benefits of selecting an enterprise suited to available resources. (2 marks)

i. _____

ii. _____

36. Define support services in agriculture. (2 marks)

_____

_____

37. State two sources of technical support for agricultural enterprises. (2 marks)

i. _____

ii. _____

38. State two sources of financial support for agricultural enterprises. (2 marks)

i. _____

ii. _____

39. Explain two reasons why extension services are important in enterprise establishment. (4 marks)

i. _____

ii. _____

40. State two types of inputs supplied by support services. (2 marks)

i. _____

ii. _____

41. Explain two ways support services contribute to productivity. (4 marks)

i. _____

ii. _____

42. State two government agencies that provide agricultural support. (2 marks)

i. _____

ii. _____

43. Explain two benefits of using private sector support services. (4 marks)

i. _____

ii. _____

44. State two roles of community-based support in enterprise establishment. (2 marks)

i. _____

ii. _____

45. Describe two ways to evaluate the usefulness of support services. (4 marks)

i. _____

ii. _____

46. Explain two ways land contributes to enterprise success. (4 marks)

i. _____

ii. _____

47. Explain two ways labour contributes to enterprise success. (4 marks)

i. _____

ii. _____

48. Explain two ways capital contributes to enterprise success. (4 marks)

i. _____

ii. _____

49. Explain two ways entrepreneurship contributes to enterprise success. (4 marks)

i. _____

ii. _____

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SUBSTRAND 3.4: MARKETING AGRICULTURAL PRODUCE

1. Define the term marketing of agricultural produce. (2 marks)

   _____

   _____

2. State two reasons why agricultural produce should be prepared for marketing. (2 marks)

   i._____

   ii._____

3. Explain two steps in sorting agricultural produce before sale. (4 marks)

   i._____

   ii._____

4. Describe two methods of grading agricultural produce. (4 marks)

   i._____

   ii._____

5. State two ways packaging adds value to agricultural produce. (2 marks)

   i._____

   ii._____

6. Explain two ways branding helps in marketing produce. (4 marks)

   i._____

   ii._____

7. Describe two methods of labeling agricultural produce. (4 marks)

   i._____

   ii._____

8. State two benefits of weighing produce before sale. (2 marks)

   i._____

   ii._____

9. Explain two ways to maintain quality during preparation for marketing. (4 marks)

i. _____

ii. _____

10. State two steps in cleaning produce before marketing. (2 marks)

i. _____

ii. _____

11. Explain two ways display affects sales of agricultural produce. (4 marks)

i. _____

ii. _____

12. State two types of packaging materials suitable for fruits and vegetables. (2 marks)

i. _____

ii. _____

13. Explain two reasons for using uniform packaging sizes. (4 marks)

i. _____

ii. _____

14. Describe two ways to prevent damage of produce during preparation for sale. (4 marks)

i. _____

ii. _____

15. Explain two benefits of proper preparation of agricultural produce for marketing. (4 marks)

i. _____

ii. _____

16. Explain how to sort fruits for market sale. (2 marks)

i. _____

ii. _____

iii. _____

iv. _____

17. Demonstrate how to grade cereals into quality classes. (2 marks)

i. _____

ii. _____

iii. _____

iv. _____

18. Demonstrate weighing procedures for selected crops. (2 marks)

i. _____

ii. _____

19. Demonstrate packaging of tubers for sale. (2 marks)

i. _____

ii. _____

20. Demonstrate labeling of processed products. (2 marks)

i. _____

ii. _____

21. Suggest two ways to store produce before taking it to market. (2 marks)

i. _____

ii. _____

22. Explain two ways to avoid spoilage during transport to market. (4 marks)

i. _____

ii. _____

23. State two tasks done when displaying produce in a market. (2 marks)

i. _____

ii. _____

iii. _____

24. Explain two ways to enhance the appearance of produce for sale. (4 marks)

i. _____

ii. _____

25. Describe two ways to prepare animal products for marketing. (4 marks)

i. _____

ii. _____

26. Define market outlet in agriculture. (2 marks)

_____

_____

27. State two physical market outlets for agricultural produce. (2 marks)

i. _____

ii. _____

28. State two digital platforms used for marketing produce. (2 marks)

i. _____

ii. _____

29. Explain two advantages of selling produce in a physical market. (4 marks)

i. _____

ii. _____

30. Explain two advantages of digital marketing for agricultural produce. (4 marks)

i. _____

ii. _____

31. Describe two ways market outlet choice affects profits. (4 marks)

i. _____

ii. _____

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32. State two factors to consider when choosing a market outlet. (2 marks)

i. _____

ii. _____

33. Explain two challenges of using physical markets. (4 marks)

i. _____

ii. _____

34. Explain two challenges of digital marketing platforms. (4 marks)

i. _____

ii. _____

35. Describe two methods of transporting produce to market safely. (4 marks)

i. _____

ii. _____

36. Define marketing expenses. (2 marks)

_____

_____

37. State two costs incurred in transporting produce to the market. (2 marks)

i. _____

ii. _____

38. State two types of taxes or charges levied in markets. (2 marks)

i. _____

ii. _____

39. Explain two ways advertisement costs affect marketing decisions. (4 marks)

i. _____

ii. _____

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40. State two expenses related to packaging produce. (2 marks)

i. _____

ii. _____

41. Explain two ways to minimize marketing expenses. (4 marks)

i. _____

ii. _____

42. State two benefits of evaluating marketing costs. (2 marks)

i. _____

ii. _____

43. Describe two ways marketing expenses affect profit margins. (4 marks)

i. _____

ii. _____

44. Explain two ways to plan a budget for marketing agricultural produce. (4 marks)

i. _____

ii. _____

45. State two advantages of recording marketing expenses. (2 marks)

i. _____

ii. _____

46. Explain two reasons why proper weighing improves sales. (4 marks)

i. _____

ii. _____

47. Explain two ways sorting and grading affects market price. (4 marks)

i. _____

ii. _____

iii. _____

48. Describe two benefits of attractive packaging and labeling. (4 marks)

i. _____

ii. _____

49. Explain two ways prepared produce reduces post-harvest losses. (4 marks)

i. _____

ii. _____

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SUBSTRAND 3.5: COMPOSTING TECHNIQUES

1. Define composting. (2 marks)

   ._____

   ._____

2. State two purposes of composting in agriculture. (2 marks)

   i._____

   ii._____

3. Explain two differences between conventional and innovative composting methods. (4 marks)

   i._____

   ii._____

   iii._____

   iv._____

4. Describe two materials suitable for composting. (4 marks)

   i._____

   ii._____

5. State two advantages of using compost manure over chemical fertilizers. (2 marks)

   i._____

   ii._____

6. Explain two ways composting improves soil fertility. (4 marks)

   i._____

   ii._____

7. Describe two factors that determine choice of composting method. (4 marks)

   i._____

   ii._____

8. Explain two reasons for layering materials during composting. (4 marks)

i. _____

ii. _____

9. Describe two signs of mature compost. (4 marks)

i. _____

ii. _____

10. State two conventional composting methods. (2 marks)

i. _____

ii. _____

11. Describe two innovative composting methods. (4 marks)

i. _____

ii. _____

12. Explain two advantages of innovative composting methods over conventional methods. (4 marks)

i. _____

ii. _____

13. State two examples of containerized composting materials. (2 marks)

i. _____

ii. _____

14. Explain two ways vermicomposting improves compost quality. (4 marks)

i. _____

ii. _____

15. Describe two environmental benefits of composting. (4 marks)

i. _____

ii. _____

iii. _____

B. FACTORS AFFECTING COMPOST QUALITY

16. State two factors that influence quality of compost manure. (2 marks)

i. _____

ii. _____

17. Explain how type of raw materials affects compost quality. (4 marks)

i. _____

ii. _____

18. Describe two ways water content influences composting process. (4 marks)

i. _____

ii. _____

19. Explain two effects of aeration on compost quality. (4 marks)

i. _____

ii. _____

20. State two effects of temperature on composting process. (2 marks)

i. _____

ii. _____

21. Explain two effects of pH on compost quality. (4 marks)

i. _____

ii. _____

22. Describe two ways to avoid contamination of compost. (4 marks)

i. _____

ii. _____

23. State two methods of improving compost quality. (2 marks)

i. _____

ii. _____

24. Explain two roles of microorganisms in composting. (4 marks)

i. _____

ii. _____

25. Describe two ways improper storage affects compost quality. (4 marks)

i. _____

ii. _____

26. Define pit composting. (2 marks)

_____

_____

27. Define heap composting. (2 marks)

. _____

. _____

. _____

28. Describe four steps in pit composting. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

29. Describe four steps in heap composting. (4 marks)

i. _____

ii. _____

iii. _____

iv. _____

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30. Explain two ways to maintain moisture in conventional compost. (4 marks)

i. _____

ii. _____

31. State two types of materials layered in conventional compost. (2 marks)

i. _____

ii. _____

32. Explain two reasons for turning compost regularly. (4 marks)

i. _____

ii. _____

33. Describe two ways to speed up decomposition in conventional composting. (4 marks)

i. _____

ii. _____

34. Explain two reasons why pit composting is suitable for large farms. (4 marks)

i. _____

ii. _____

35. State two disadvantages of conventional composting methods. (2 marks)

i. _____

ii. _____

D. INNOVATIVE COMPOSTING

36. Define vermicomposting. (2 marks)

_____

_____

37. Describe two steps in vermicomposting. (4 marks)

i. _____

ii. _____

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38. State two benefits of vermicomposting. (2 marks)

i. _____

ii. _____

39. Define containerized composting. (2 marks)

. _____

. _____

40. Describe two steps in containerized composting. (4 marks)

i. _____

ii. _____

41. Explain two ways containerized composting conserves space. (4 marks)

i. _____

ii. _____

42. State two materials suitable for vermicomposting. (2 marks)

i. _____

ii. _____

43. Describe two ways to monitor worm health in vermicomposting. (4 marks)

i. _____

ii. _____

44. Explain two reasons why innovative composting is suitable for urban farms. (4 marks)

i. _____

ii. _____

45. State two advantages of using innovative composting over conventional composting. (2 marks)

i. _____

ii. _____

46. Explain two ways compost improves soil structure. (4 marks)

i. _____

ii. _____

47. Describe two benefits of compost in increasing crop yield. (4 marks)

i. _____

ii. _____

48. Explain two ways compost reduces dependence on chemical fertilizers. (4 marks)

i. _____

ii. _____

49. State two environmental benefits of using compost in farms. (4 marks)

i. _____

ii. _____

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