



# GOLIATI ZONE EXAMINATION BOARD

2020 PRIMARY SCHOOL LEAVING CERTIFICATE

MOCK EXAMINATION

## PRIMARY SCIENCE

(100 marks)

Time Allowed: 2 hours

8:00 – 10:00 AM

Friday, 21 February

Name of Candidate: \_\_\_\_\_  
(Surname First)

Name of School: \_\_\_\_\_

### Instructions

1. This paper contains 9 pages. Please check
2. Answer **all** questions in all sections. Section A consists of **40** multiple choice questions carrying one mark each. **Encircle** a letter of your choice representing the right answer to each question. Section **B** has **10** structured questions. Write your answers to this section on the question paper in the spaces provided. The maximum number of marks for each answer is indicated against the question.
3. In the table provided on this page, **tick** against the question number you have answered.
4. **IMPORTANT**
  - Please make sure you have written your name and Examination number on the spaces provided
  - Hand in your question paper to the invigilator when time is called to stop writing.

| Question number | Tick if answered | Do not write in these columns |  |
|-----------------|------------------|-------------------------------|--|
| 1-40            |                  |                               |  |
| 41              |                  |                               |  |
| 42              |                  |                               |  |
| 43              |                  |                               |  |
| 44              |                  |                               |  |
| 45              |                  |                               |  |
| 46              |                  |                               |  |
| 47              |                  |                               |  |
| 48              |                  |                               |  |
| 49              |                  |                               |  |
| 50              |                  |                               |  |
|                 |                  |                               |  |

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## SECTION A: (40 marks)

Encircle the letter representing the correct answer

## AGRICULTURE (20 marks)

- Which of the following is the local variety of Cassava?
  - Manyokola
  - Silira
  - Mmaunjiri
  - Mkombezi
- Which of the following is not a way of maintaining a hand trowel?
  - Removing soil
  - Painting inside
  - Mending
  - None of the above
- A fish pond has 300 fish weighing 150kg. calculate the amount of the feed needed per day.
  - 1.67kg
  - 6000kg
  - 15kg
  - 7.5kg
- An indigenous farm machinery and technologies used for grinding grains is a \_\_\_\_\_.
  - Guards
  - Soot
  - Ash
  - Quern
- During which farm operation should a hoe be more used than a plough.
  - Ridging
  - Banking
  - Tilling in heavy soil
  - Tilling in hill sides

**Table 1:** shows a crop record of 4 sized plots in which equal amount of maize was planted. Use it to answer question 6 to 8.

| Plot No. | Type of fertilizer     | Colour of maize leaves | Amount of yields harvested (KG) |
|----------|------------------------|------------------------|---------------------------------|
| 1        | 23:21:0+4s and UREA    | Green                  | 5000                            |
| 2        | Single Super Phosphate | Yellow                 | 2000                            |
| 3        | No fertilizer          | Purple                 | 1500                            |
| 4        | manure                 | Brown                  | 2700                            |

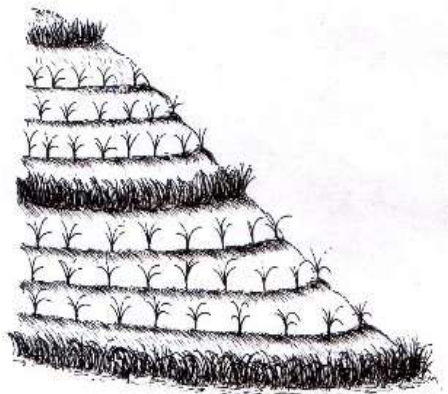
- What was the yield of maize from the plot with fertilizer?
  - 5000kg
  - 2000kg
  - 2700kg
  - 1500kg
- Which of the following would correct deficiency that caused colouring in plot 3?
  - Urea
  - CAN
  - DAP
  - Sulphate of ammonia
- Which of the following methods of applying fertilizer was used in plot 1 if the maize was planted at 25cm apart?
  - Banding
  - Dollop
  - Foliar
  - Broadcasting
- It has been observed that 1 Kilogramme of dried peas is very expensive in February and very cheap in June. Which of the following is the correct explanation for observation?
  - Demand for peas in February is equal to supply.
  - The demand for peas in June is higher than supply.

Continued/...



- C. The demand for peas in February is higher than supply.
- D. The supply for peas in June is less than the supply in February.

**Figure 2:** shows a structure for controlling soil erosion. Use it to answer question 10 to 11.

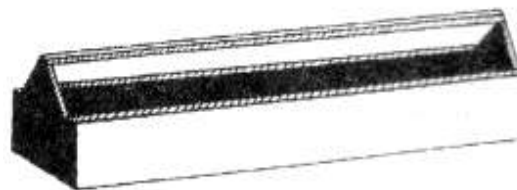


10. Name the structure above.
  - A. Terraces
  - B. Contour bands
  - C. Box ridges
  - D. Mulching
11. How do these structures control soil erosion?
  - A. Killing pests
  - B. Reducing run-off
  - C. Improve soil erosion
  - D. To protect plants
12. Growing of trees together with arable crops is called \_\_\_\_\_.
  - A. Afforestation
  - B. Agronomy
  - C. Agroforestry
  - D. Deforestation
13. The following are advantages of Skyroo toilet except.
  - A. It is too expensive to build
  - B. Does not pollute ground water
  - C. Serve space
  - D. Improve agriculture production
14. What is the recommended method of applying fertilizer in a woodlot?
  - A. Dollop
  - B. Banding
  - C. Folio

D. Broadcasting

15. Mr. Magaletta grows Pawpaw's, Guavas, and Pine apples. What branch of agriculture is he encouraging?
  - A. Horticulture
  - B. Floriculture
  - C. Olericulture
  - D. Pomomoculture
16. Which of the following types of chickens are kept for both meat and egg production?
  - A. Starbro
  - B. Indianriner
  - C. Blackaustralorp
  - D. Rose
17. The term Cannibalism means
  - A. An act of not allowing chickens to move out
  - B. An act of birds eating each other
  - C. An act of suspending poles where chicken cannot rest
  - D. Allowing air to move in and out

**Figure 3:** shows a chicken feeding trough. Use it to answer question 18.



18. What is the use of the diagram above?
  - A. For feeding chickens
  - B. For cleaning Khola
  - C. For keeping water
  - D. None of the above
19. Which of the following are the two common diseases of groundnuts?
  - A. Rosette and bacterial bright
  - B. Leaf spot and termites
  - C. Aphids and termites
  - D. Rosette and leaf spot

Continued/...

20. Farmers are discouraged from pruning trees when it is raining in order to.
- Prevent rotting of trees
  - Encourage drying of pruned branches
  - Provide more cover for the soil
  - Encourage growth of shoots.

### SCIENCE AND TECHNOLOGY (20 marks)

21. Which of the following is the third stage in scientific investigation?
- Knowing the problem
  - Making conclusion
  - Planning investigation
  - Making prediction
22. Which of the following is not a traditional way of food preservation?
- Salting
  - Sun drying
  - Smoking
  - Canning
23. Which of the following is a common symptom of both Hook worms and Tape worms?
- Anaemia
  - Patients looking pale
  - Itching
  - Dry cough

**Figure 4:** shows a sense organ. Use it to answer question 24 and 25.



24. Identify the sense organ.
- Root
  - Tongue
  - Skin
  - nose
25. What is the main function of the sense organ?
- Tasting

- Smelling
- Feeling
- Hearing

26. Name the cell that is formed after fertilization.

- Amnion
- Zygote
- Embryo
- Semen

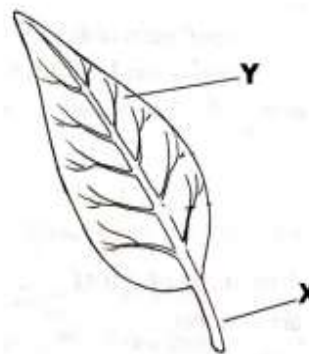
27. If a spring is stretched, it acquires energy of shape is known as;

- Kinetic
- Sound
- Strain
- Chemical

28. Which part of a bean seed contains food reserves?

- Plumule
- Radicle
- Micro Pyle
- Cotyledon

**Figure 5:** is a part of a plant. Use it to answer question 29 and 30.



29. Name the part marked Y.

- Apex
- Petiole
- Lamina
- Midrib

30. What is the function of the part labelled X?

- Allows air to pass in and out
- Carry water
- Produce oxygen
- Connect the leaf to the branch

Continued/...

31. Which of the following is the best way of preventing HIV/AIDS?
- A. Abstinence
  - B. Use of condom
  - C. Avoid harmful cultural of practices
  - D. Being faithful to one partner

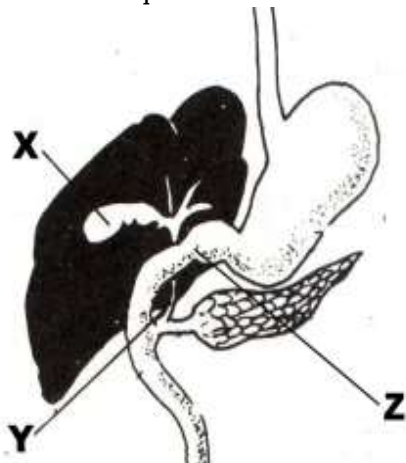
32. Which of the following nutritional deficiency diseases is caused by lack of vitamin D in the diet?

- A. Goiter
- B. Rickets
- C. Scurvy
- D. Anaemia

33. Name the process when the Iodine crystals are heated.

- A. Melting
- B. Solidification
- C. Sublimation
- D. Evaporation

**Figure 6:** Shows a Human Digestive System. Use it to answer questions 34 and 35.



34. Name part labelled Z.

- A. Liver
- B. Colon
- C. Stomach
- D. Pyloric sphincter

35. Give the function of the part labelled X.

- A. Store food

- B. Regulates sugar
- C. Store bile
- D. Secretes pancreatic juice

36. The following are disadvantages of roasting food **except**.

- A. The food looks attractive
- B. Does not make food tender
- C. The food shrinks
- D. Demand more attention.

37. Which of the following animals are Herbivores?

- i. elephants
- ii. lions
- iii. pigs
- iv. cattle

- A. i and iii
- B. i and iv
- C. ii and iii
- D. ii and iv

38. What name is given to a substance that dissolves in another substance?

- A. Suspension
- B. Mixture
- C. Solute
- D. Solvent

39. Which of the following delicate parts is protected by Vertebral Column?

- A. Heart
- B. Lung
- C. Brain
- D. Spinal cord

40. Which part of the heart transports blood to the lungs?

- A. Pulmonary artery
- B. Pulmonary vein
- C. Aorta
- D. Tricuspid valve

Continued/...

**SECTION B (60 marks)**Answer **all** questions in the spaces provided.**AGRICULTURE (30 marks)**

41. a. Define the term "Orchard."

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**(1 mark)**

b. Explain three ways of weeding an Orchard.

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**(3 marks)**

42. a. Give two reasons why rabbits are important.

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**(2 marks)**

b. Mention any one example of fresh feed materials of rabbits.

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**(1 mark)**

43. a. State any two activities involved when processing Cassava for storage.

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**(2 marks)**

b. If the recommended spacing for Cassava is 90cm apart. Calculate the number of Cassava cuttings to be planted on a ridge 81 meters long. Show your working.

**(3 marks)**

44. a. Explain the following on Demand and Supply.

i. What happens to the price of farm produce when demand is greater than supply?

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**(1 mark)**

ii. What happens to the price of farm produce when supply is greater than demand?

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**(1 mark)**

b. i. List down three common diseases of flowers.

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**(3 marks)**

Continued/...



- ii. Explain two importance of fertilizer to vegetables.

\_\_\_\_\_  
 \_\_\_\_\_ (2 marks)

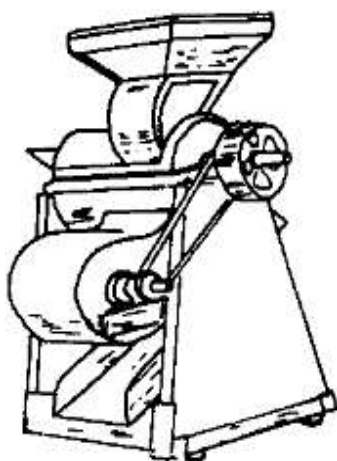
- c. i. Give one example of fruit that can be propagated by suckers.

\_\_\_\_\_ (1 mark)

- ii. Mention one factor to consider when propagating fruits by means of suckers.

\_\_\_\_\_ (1 mark)

**Figure 7:** Shows a farm implement. Use it to answer question 45.



45. a. i. Name the implement.

\_\_\_\_\_ (1 mark)

- ii. What is the use of the implement?

\_\_\_\_\_ (1 mark)

- b. Mention 3 ways of maintaining the implement.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (3 marks)

- c. Explain two feeding habits in goat.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (4 marks)

### SCIENCE AND TECHNOLOGY (30 marks)

46. a. i. Define a Pivot.

\_\_\_\_\_ (1 mark)

- ii. State the law of levers

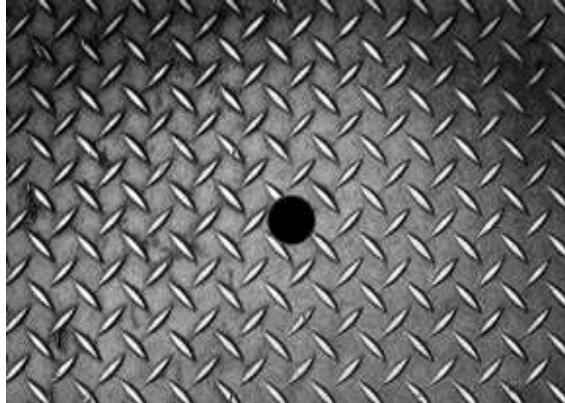
\_\_\_\_\_ (1 mark)

Continued/...

b. we cannot see things behind walls simply because \_\_\_\_\_.

\_\_\_\_\_ (2 marks)

**Figure 8:** Shows a metal with a hole in the center. Use it to answer question 46 c.



c. i. What will happen to the size of the hole when the metal is heated?

\_\_\_\_\_ (2 mark)

ii. Give a reason for your answer to question 46.c.i.

\_\_\_\_\_ (2 marks)

47. a. Why is it difficult to plan meals for strict Vegetarians?

\_\_\_\_\_ (2 marks)

b. Name two effects of undernutrition.

\_\_\_\_\_ (2 marks)

48. a. Give one example of each of the following types of refuse;

i. Dry refuse

\_\_\_\_\_ (1 mark)

ii. Wet refuse

\_\_\_\_\_ (1 mark)

b. Name two types of Fabrics.

\_\_\_\_\_ (2 marks)

c. i. What is Metamorphosis?

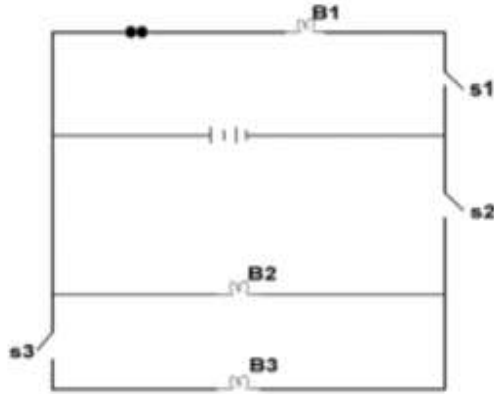
\_\_\_\_\_ (1 mark)

ii. What is the difference between complete and incomplete Metamorphosis?

\_\_\_\_\_ (2 marks)

Continued/...

**Figure 9:** Shows a Parallel circuit. Study it and answer question 49 a.



49. a. i. Which bulbs will give light when switches S1 and S2 are closed?

\_\_\_\_\_ (2 marks)

ii. When too much electricity comes from the cell, which bulb cannot be damaged easily? Give a reason for your answer.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

b. Which causes the following accidents.

i. Choking

\_\_\_\_\_ (1mark)

ii. Burns and scalds

\_\_\_\_\_ (1 mark)

c. What is the difference between analogue and digital system of transmitting messages?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

50. a. i. Give one strength of a traditional kitchen.

\_\_\_\_\_  
\_\_\_\_\_ (1 mark)

ii. Name the largest part of the brain.

\_\_\_\_\_  
\_\_\_\_\_ (1 mark)

b. Construct one food chain with the following organisms: People, Crocodile, fish, algae.

(4 marks)

**END OF THE QUESTION PAPER**

**NB: This paper contains 9 pages**

