



THE MALOMO ZONE EXAMINATIONS BOARD

2021 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION

PRIMARY SCIENCES

(100 MARKS)

Subject Number: P163

Time Allowed: 2hours
8:00 – 10:00 am

Friday 23rd July

Name of Candidate: _____
(Surname first)

Name of school: _____

Instructions

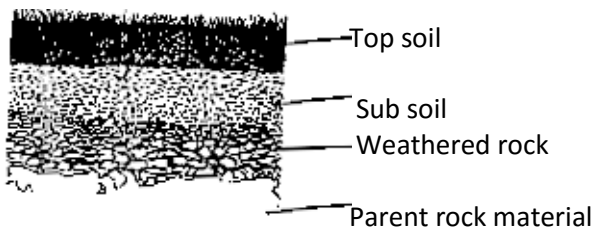
- This paper contains 7 printed pages. Please check.**
- This paper has **two** sections **A** and **B**. section **A** consist of **40** multiple choice questions Carrying 1 mark each. **Encircle** a letter of your choice representing the right answer to each question. Section **B** has **10** structured questions. Write your answers to this section on the question paper in the spaces provided. The maximum number of max for each answer is indicated against the question.
- Answer **all** questions.
- In the table provided on this page, **tick** against the question number you have answered.
- IMPORTANT**
 - Please make sure you have written your **name** on top of the question paper in the spaces provided.
 - Hand in your question paper to the invigilator when time is called to stop writing.

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

SECTION A (40 marks)**AGRICULTURE**

- Which of the following crops belong to silviculture?
 - Rape
 - Pumpkin
 - Marigold
 - Blue gum
- The following are local varieties of cassava except
 - Takoma
 - Mbundumali
 - Gomani
 - chitembwe
- which part of the plough cuts the soil into thin layer?
 - Depth wheel
 - Hitch
 - Hake
 - Share
- What is the use of querns on the farm?
 - For measuring planting stations
 - Controlling weevils
 - Keeping preserved vegetables
 - For grinding grains

Figure 1 below shows soil profile. Use it to answer questions 5 and 6

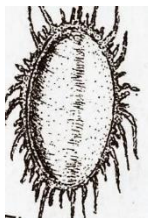


- Which layer in the soil profile above is for crop production?
 - Parent rock
 - Top soil
 - Weathered rock
 - Sub soil
- What term refers to the going down of nutrients from top soil down the sub soil?

- Weathering
 - Soil erosion
 - Leaching
 - Soil degradation
- A farmer bought ten bags of fertilizer at K14750.00 each. After harvesting he sold produce and got K115,000.00. find the loss he made.
 - K147,000.00
 - 32,500.00
 - K115,000.00
 - K13,500.00
 - The practice of growing crops together with trees on the same piece of land is known as
 - Agronomy
 - Agroforestry
 - Forestry
 - Game reserve
 - Which of the following is the importance of sunlight in agricultural environment?
 - Helps to increase egg production
 - Helps to dry up rivers
 - Brings rainfall
 - Causes different diseases
 - Which of the following crops can be propagated by cuttings?
 - Banana and sweet potatoes
 - Irish potatoes and carrots
 - Cassava and sweet potatoes
 - Cassava and bananas
 - A fish farmer noted that there was a large amount of uneaten food in the pond. Why is this dangerous?
 - It causes parasites to multiply
 - It makes the pond to produce bad smell
 - It attracts fish predators
 - It results in lack of oxygen
 - Which of the following statement best define the term stocking?
 - A method of harvesting fish
 - A method of feeding fish
 - A method of constructing a fish pond

- D. Putting a live fish in a pond
13. Which of the following is the characteristic of clay soil?
- Large particles
 - Medium air spaces
 - Small particles
 - Large air spaces
14. Which of the following animal feeds are concentrates?
- Maize bran and cotton seed cake
 - Maize meal and sorghum stalks
 - Meat meal and green grass
 - Bone meal and rice straw
15. Why is hardening off important before transplanting?
- To control diseases
 - To withstand field conditions
 - To control pests
 - To reduce soil erosion
16. Which of the following structures can conserve water for use on the farm?
- Terraces
 - Dams
 - Graded bunds
 - Storm drains
17. The following are characteristics of land that affect agricultural production except?
- Size
 - Fertility
 - Capital
 - slope
18. how can a farmer control dumping off in a vegetable garden?
- Uprooting disease plants
 - Correct spacing
 - Light hoeing
 - Regular weeding

Figure 2 below shows a pest of flowers. Use it to answer questions 19 and 20



19. Name the pest shown above
- Slug
 - Mealybug
 - Spider mite
 - White fly
20. What damage does the pest cause to flowers?
- It sucks juices
 - It cuts stems
 - It eats flowers
 - It eats roots

SCIENCE AND TECHNOLOGY

21. Which of the following is the function of the human skeleton?
- Manufacturing nutrients
 - Holding the skin
 - Controlling sense organs
 - Giving shape to the body
22. Which of the following are factors that would affect results of investigation?
- Hypothesis
 - Planning stage
 - Variables
 - Data presentation
23. Which of the following groups of invertebrates has jointed legs?
- Molluscs
 - Protozoa
 - Worms
 - Arthropods
24. What do insects benefit from flowers?
- Nectar
 - Colours
 - Scent
 - Honey
25. Why is an image upside down in a pinhole camera?
- Light travels in straight line
 - Light has mass
 - Light does not produce sound
 - Light is not allowed in cameras
26. Which type of root system does onion have?

- A. Tap root system
 - B. Fibrous root system
 - C. Adventitious root system
 - D. Tuberous root system
27. The following are types of worms that infect people except?
- A. Earth worm
 - B. Roundworm
 - C. Tape worm
 - D. Hook worm

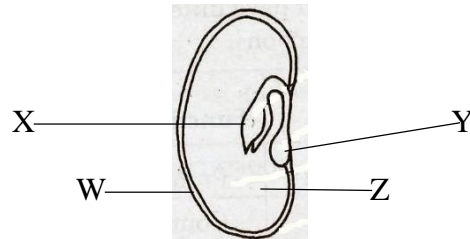
Study the food chain below and answer questions 28 and 29

Green plants → grasshoppers → birds → _____

28. Which of the following best completes the food chain?
- A. Elephant
 - B. People
 - C. Goats
 - D. Cattle
29. Why are green plants at the beginning of the food chain?
- A. They do not move
 - B. They are eaten by grasshoppers
 - C. They produce food on their own
 - D. They are eaten while fresh
30. What method would you use to separate water and paraffin mixture?
- A. Decanting
 - B. Sieving
 - C. Filtration
 - D. Magnetism
31. Which of the following tissues attach muscles to bones?
- A. Ligaments
 - B. Nerves
 - C. Capillaries
 - D. Tendons
32. A mushroom does not produce its own food because it has no
- A. Roots
 - B. Leaves

- C. True stem
 - D. Chlorophyll
33. What is the purpose of carrying out scientific investigations?
- A. Collecting data through experiments
 - B. Coming up with variables
 - C. Designing the experiments
 - D. Finding out the truth about something
34. Which of the following plant leaves has parallel veins?
- A. Guava leaves
 - B. Maize leaves
 - C. Pumpkin leaves
 - D. Tomato leaves

Figure below shows internal parts of a bean seed. Use it to answer questions 35 and 36.



35. Name the part marked W?
- A. Cotyledon
 - B. Plumule
 - C. Testa
 - D. Radicle
36. Which parts form embryo of the bean seed?
- A. X and W
 - B. W and Z
 - C. W and Y
 - D. X and Y
37. Which of the following is a modern food preservation technology?
- A. Bottling
 - B. Smoking
 - C. Sun drying
 - D. Salting
38. The term decoding means__
- A. Inputting a message
 - B. Sending a message
 - C. Receiving information

- D. Interpreting message
39. Why is the vacuum flask painted silver inside?
- A. To give heat
 - B. Radiate very little amount of heat
 - C. To give sound
 - D. To increase force

40. Which of the following components of blood is used for blood clotting?
- A. Plasma
 - B. Red blood cells
 - C. Platelets
 - D. White blood cells

SECTION B (60 MARKS)

Write your answers in the spaces provided

AGRICULTURE

- 41.
- a) Define farming calendar?

_____ (2 marks)
 - b) Why is the farming calendar different from one area to another?

_____ (2 marks)
 - c) State two importance of having enough workers on the farm

_____ (2 marks)
- 42.
- a) What happens to the price when demand for fish is high at the market?
_____ (2 marks)
 - b) State two conditions for using substitution of inputs on the farm

_____ (2 marks)
 - c) Mention three aims of agriculture as business

_____ (3 marks)
- 43.
- a) Define a forest

_____ (2 marks)
 - b) State any two ways of managing woodlot

_____ (2 marks)
 - c) In an agroforestry, why are leguminous trees planted together with crops? Give one way
_____ (1 mark)

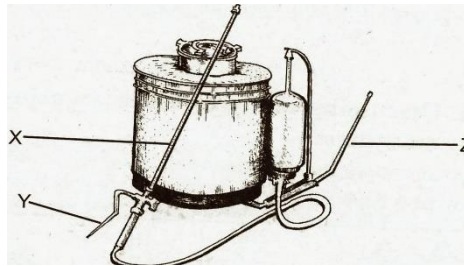
- 44.
- a) State two characteristics of a good cock

_____ (2 marks)
 - b) Explain the difference between browsing and grazing

_____ (2 marks)
 - c) State any two animal husbandry practices

_____ (2 marks)

45. Figure below shows a farm machinery. Use it to answer questions that follow



- a) Name the farm machinery
_____ (1 mark)
- b) State the parts marked
X. _____
Y. _____
Z. _____ (3 marks)
- c) State the use of the farm machinery on the farm
_____ (1 mark)

SCIENCE AND TECHNOLOGY

- 46.
- a) State three types of food based on function

_____ (3 marks)
 - b) Give any two reasons for preserving food

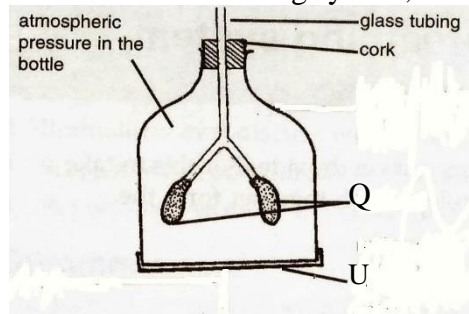
_____ (2 marks)
 - c) Mention any one effect of malnutrition
_____ (1 mark)
47. Read the statement carefully to answer questions 47 a) and b)
Maria mixed sugar and water for her breakfast.
- a) Identify the following
 - (i) Solute _____
 - (ii) Solvent _____ (2 marks)

- b) Give any three factors that would affect the solubility of sugar in water _____ (3 marks)
- c) State two problems of the following classroom technologies
- (i) Radio _____
- (ii) Chalkboard _____ (2 marks)

48.

- a) State any three groups of animals
- _____
- _____
- _____ (3 marks)
- b) Mention two characteristics of amphibians
- _____
- _____ (2 marks)
- c) State two ways how fish protect themselves from enemies
- _____
- _____ (2 marks)

49. Figure below shows model of human breathing system, use it to answer questions that follow



- a) Name the parts marked Q and U
- Q. _____ U. _____ (2 marks)
- b) What happens to the following parts during breathing in
- (i) Q. _____ (2 marks)
- (ii) U. _____ (2 marks)

50.

- a) List any two nutritional deficiency diseases
- _____
- _____ (2 marks)
- b) Explain any two importance of balanced meals to HIV patients
- _____
- _____ (2 marks)

