



EXAMINATION NO: \_\_\_\_\_

# MAGOTI ZONE MOCK EXAMINATIONS BOARD

## 2022 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION

### PRIMARY SCIENCE

(100 MARKS)

Subject Number: P044

Time allowed: 2 hours

8:00 -10:00am

Friday, 13 May

Name of candidate: \_\_\_\_\_

(Surname first)

Name of school: \_\_\_\_\_

#### Instructions

1. This paper contains **9 printed pages**. Please check.
2. Write your **Name** on each page of this paper.
3. This paper consists of two sections: **A** and **B**.
4. Answer all questions in Sections **A** by encircling the letter representing the correct answer. In Section **B**, write your answers in the spaces provided after each question.
5. In the table provided on this page, tick against the question number you have answered.
6. Follow instructions for each section carefully.
7. **IMPORTANT**
  - Please make sure you have written your Name on the question paper in the spaces provided on top of each page.
  - Hand in your work to the invigilator when time is called to stop writing.

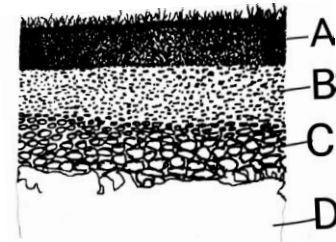
Question Number	Tick if answered	Do not write in these column	
1-40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			

**SECTION A: AGRICULTURE (20 Marks)**

Encircle a letter (A, B, C or D) representing the right answer

- The contamination of the environment with harmful and poisonous substances arising from human activities is called\_\_  
A. Soil erosion      C. Siltation  
B. Pollution      D. Pruning
- Which is the correct method of controlling internal parasites in livestock production  
A. Avoid grazing animals in Dambo areas  
B. Vaccination  
C. Drenching  
D. Dipping
- Which indigenous farm machinery and technologies are used as pesticides  
A. Gourds and ash  
B. Ash and Querns  
C. Gourds and Querns  
D. Ash and soot
- \_\_\_\_\_ is one of the principles of farm business that encourage farmers to grow crops that are best suited in their area  
A. Substitution of inputs  
B. Demand  
C. Comperative advantage  
D. Supply

**FIGURE 1** below is a diagram showing experiment conducted by a certain farmer. Use it to answer questions **5 to 7**

**FIGURE 1**

- The layer labelled A is  
A. Top soil      C. Sub soil  
B. Parent rock      D. Weathered rock
- Which of the following layers of the soil has most living organisms?  
A. Sub soil      C. Parent rock  
B. Weathered rock      D. Top soil
- Which of the following crops grow well in soil labelled A if the type of soil is loam  
A. Rice  
B. Sugarcane  
C. Maize  
D. Bananas and pineapples
- How does mulching conserve soil moisture?  
A. By controlling splashes of rain water  
B. By suffocating weed seedlings  
C. By decomposing planting materials  
D. By decreasing evaporation of water
- Why is vegetative cover important in crop production?  
A. It provides firewood  
B. It provides timber  
C. It reduces pests  
D. It conserves soil

2022

10. What term is given to knowledge and skills in performing farm operations?

- A. Capital                      C. Labour  
B. Management                D. Land

11. Which of the following raw materials could be used to manufacture shoes?

- A. Hoofs                        C. Horn  
B. Hides                        D. Blood

12. Why should some seeds be put in hot water first before sowing?

- A. To kill the pests  
B. To prevent diseases  
C. To soften the seed coats for easy germination  
D. To prevent the pests from entering the seeds

13. Which of the following are the main types of animal husbandry practices?

- I. Housing                      II. Feeding  
III. Kraal                        IV. Breeding

- A. I, II and III  
B. II, III and IV  
C. I, II and IV  
D. I, III and IV

**Figure 2** below is a diagram showing different methods of weeding. Use it to answer questions 14 to 15



**Figure 2**

14. Identify the method of weeding above?

- A. Hand weeding                C. Chemical method  
B. Light hoeing                 D. Slashing

15. When is this method of weeding used?

- A. When flowers are widely spaced  
B. When space between flowers allow use of a hoe  
C. When weeds are very close to plants  
D. When flower plants are closely spaced

16. Which of the following is one of the common weeds in flower gardens?

- A. Maize plants                C. Grass  
B. Fibrous roots                D. Datura

17. The following are examples of farm records, except \_\_\_\_\_

- A. Production records  
B. Yield records  
C. Field operation records  
D. Crop records

18. Why should farmers sell their crops when they are scarce

- A. To make them available to everyone  
B. To make profits  
C. To prevent from thieves  
D. To avoid hunger

19. Which of the following is a pest that attack flowers?

- A. Grey mould  
B. Giant polypore fungus  
C. Slugs  
D. Beech bark

20. Why New Zealand white and California black are recommended breeds in Malawi?

- A. Because they are faster than any other breed  
B. Because they don't eat everyday  
C. Because they are black and white in colour  
D. Because they easily adapt different condition

## SCIENCE AND TECHNOLOGY

(20 MARKS)

21. Which seed or fruit can be dispersed by explosive mechanism

- A. Bean                      C. Mangoes  
B. Rice                        D. Maize

22. \_\_\_\_\_ is the type of toy made from wool

- A. Carton toy                C. Wooden toy  
B. Plastic toy                D. Paper toy

23. An example of round worm is \_\_\_\_\_

- A. Flatworm                  C. Annelid  
B. Ascaris                    D. Octopus

24. Which method of cooking can be used to cook beans

- A. Boiling                    C. Baking  
B. Frying                     D. Smoking

25. Identify the correct order of food chain

- A. People → Birds → grasshoppers → green grass  
B. Green grass → people → grasshoppers → birds  
C. Green grass → birds → grasshoppers → people  
D. Green grass → grasshoppers → birds → people

26. What advantage does a traditional kitchen have over a modern kitchen?

- W. it has limited space  
X. it has a good working surface  
Y. it is cheap to construct  
Z. it is easy to maintain

- A. X and W                  C. Z and X  
B. Y and Z                  D. Y and W

Figure 3 below shows a source of heat energy. Use it to answer questions 27 and 28



Figure 3

27. Identify one way of producing the heat energy shown in the figure above

- A. Scorch                    C. Chemical reaction  
B. Electricity                D. Friction

28. Why is heat energy useful to our everyday life

- A. Helps in baking bricks  
B. For communication  
C. Helps in telling time  
D. It causes skin cancer

29. Which of the following is a modern food preservation technology?

- A. Sun drying                C. Canning  
B. Salting                     D. Smoking

30. What name is given to a substance that dissolves another substance

- A. Distillation                C. Solute  
B. Solvent                     D. Soluble

31. One way of overcoming the problem of transport cost is by \_\_\_\_\_

- A. Joint hiring of vehicles  
B. Having your own transport  
C. Using the fastest vehicles  
D. Using bicycles when transporting goods

32. A tissue which attaches bones to muscles is called \_\_\_\_\_  
 A. Ligaments                      C. Tendons  
 B. Joints                              D. grinding joints
33. \_\_\_\_\_ is a food nutrient that helps to strengthen bones  
 A. Protein                              C. Vitamin B 12  
 B. Calcium                              D. Carbohydrates
34. Sex cells that are involved in fertilization are:  
 A. Ovaries and seminal fluid  
 B. Fallopian tube and oviduct  
 C. Egg and sperm  
 D. Penis and vagina
35. Which part of the brain is responsible for controlling balance  
 A. Cerebellum                          C. Spinal cord  
 B. Medulla oblongata              D. Cerebrum
36. To which type of root system does maize belong  
 A. Tuberous roots                      C. Tap roots

- B. Prop roots                          D. Fibrous roots
37. Why drug and substance abuse is dangerous to human being?  
 A. It causes mental disorders  
 B. It makes a person think high  
 C. It causes neck and back injuries  
 D. It makes fertilization to be active in human body
38. Which part of the bean seed develops into a shoot  
 A. Seed coat                              C. Radicle  
 B. Scar                                      D. Plumule
39. Which of the following is a function of a skeleton?  
 A. Give support to the body  
 B. Assist in locomotion  
 C. Give shape to the body  
 D. All of the above
40. Which one is an example of a Nutritional deficiency disease  
 A. Marasmus                              C. Malaria  
 B. HIV and AIDS                          D. Corona virus

**SECTION B (60 Marks)**

**AGRICULTURE**

Answer all questions in this section. Write your answers in the spaces provided.

41. a. What do we call a large area of land covered by trees and grasses?

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

b. State the **two** types of forest

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

c. Mention any **one** characteristic in each of the types of forest stated in question **41b**

\_\_\_\_\_

(2 marks)  
 Continued/...

Figure 4 is a diagram of a tending flowers. Use it to answer questions 42



Figure 4

42.a. Identify the farming activity above

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

b. What is trimming?

\_\_\_\_\_

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

c. Give any **two** reasons why should flowers be trimmed?

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

d. Write down **three** procedures for trimming flowers

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

43. Learners at Nyala primary school wanted to raise fish along Nyala river which is near their school.

a. Explain **one** procedure they can follow when stocking fish

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

b. Name **two** water plants that fish can survive with?

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

c. Why is it important to feed fish in a pond at the same time and place each day

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

44.a. What is meant by “risks” in farm business?

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

b. Mention any **two** risks associated with a farm business

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

Figure 5 below shows chickens. Use them to answer question 45

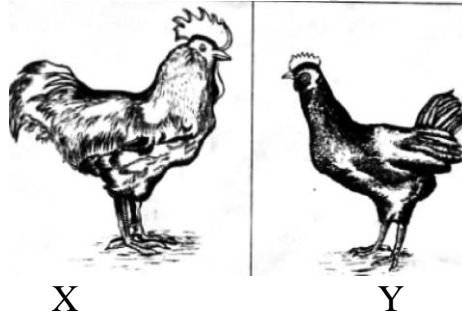


Figure 5

45.a). Identify the types of chickens

X. \_\_\_\_\_ Y. \_\_\_\_\_  
(2 marks)

b). What is the difference between these two types of chicken

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

46.a). Mention any **two** common pests that attack citrus fruits

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

b). Explain any **one** way of harvesting pawpaw

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

**SCIENCE AND TECHNOLOGY**

47.a. Give any **two** examples of toys that can be made for marketing

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

b. State any **two** factors to consider when costing toys

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

c. List any **two** ways of improving quality of a product

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(2 marks)

**Figure 6** below shows a type of Kitchen. Use it to answer question 48



**Figure 6**

**48.a.** Name the type of Kitchen above

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(1 mark)

b. List any **two** materials used to construct the kitchen

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(2 marks)

c. (i) Explain any **two** limitations of this type of Kitchen shown above

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(2 marks)

(ii) State any **two** ways of improving the type of kitchen shown above

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(2 marks)

**49.a.** Differentiate between the **DIAPHRAGM** and the **INTRA-UTERINE DEVICE** as methods of family planning

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(2 marks)

b. Mention any **two** factors that affect the rate of solubility of substances in water

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(2 marks)

c. Name **one** technology for conserving the environment

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(1 mark)

**50.a.** State any **two** types of fibres from which fabrics are made

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(2 marks)



b. Give **two** importance of preserving food

\_\_\_\_\_  
\_\_\_\_\_

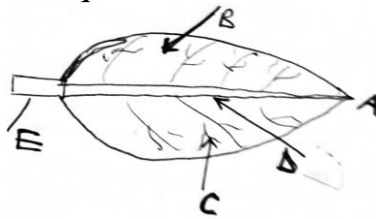
(2 marks)

c. Give **one** advantage of information and communication technologies

\_\_\_\_\_  
\_\_\_\_\_

(1 mark)

**Figure 7** shows a leaf. use it to answer question 51



**Figure 7**

**51.a.** Name the parts labelled B and D

B \_\_\_\_\_ D \_\_\_\_\_

(2 marks)

b. State **one** function of the diagram above to a plant

\_\_\_\_\_  
\_\_\_\_\_

(1 mark)

c. Why is it important to plan our daily meals? Give **two** reasons

\_\_\_\_\_  
\_\_\_\_\_

(2 marks)

**52.a.** Give **two** reasons why it is important to take a packed meal to school

\_\_\_\_\_  
\_\_\_\_\_

(2 marks)

b. Give any **two** examples of food taboos and beliefs

\_\_\_\_\_  
\_\_\_\_\_

(2 marks)

**END OF QUESTION PAPER**

**NB: This paper contains 9 printed pages.**