



# MKUKULA ZONE EXAMINATION BOARD

2024 - 2025 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION

**STANDARD 8**

**PRIMARY SCIENCES**

**(100 MARKS)**

**Subject number: P163**

**Time allowed: 2 hr.**

**Date:** \_\_\_\_ / \_\_\_\_ / 2025

**NAME OF CANDIDATE:** \_\_\_\_\_  
(Surname first)

**NAME OF SCHOOL:** \_\_\_\_\_

### Instructions

1. This paper contains **7 pages** please check.
2. Write your **examination number** on each page of this page.
3. This paper has two sections **A** and **B**
4. Answer all questions.
5. Follow instructions for each section Carefully.

### Important

6. Please make sure you have written your **name** and **examination number** in the spaces provided.
7. Hand in your question paper to the invigilators when the time is called to stop writing.

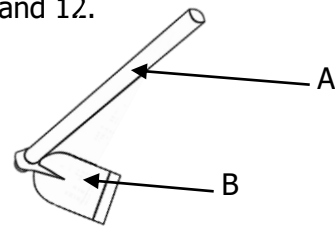
Question Number	Tick question 41 – 52 if answered	Do not write in these columns	
1 – 20			
21 - 40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			

**AGRICULTURE**

1. Which of the following is a raw material from poultry?
  - a. Shoes
  - b. Feather
  - c. Leather
  - d. Hide
2. Which of the following practises leads to water pollution?
  - a. Applying organic matter
  - b. Cultivating on steep slope
  - c. Using contour ridges
  - d. Using vegetative cover
3. To which sub-branch of agriculture does the growing of maize belong to?
  - a. Agriculture
  - b. Horticulture
  - c. Floriculture
  - d. Agronomy
4. Which of the following breeds of cattle is kept for beef?
  - a. Jersey
  - b. Boron
  - c. Arshire
  - d. Freshan
5. Which of the following method can help to control parasites of fish in a pond?
  - a. Scaring them away
  - b. Fencing the pond
  - c. Setting traps
  - d. Applying lime after drying
6. Identify the method pf propagating pineapple?
  - a. Budding
  - b. Sucker
  - c. Grafting
  - d. Seed
7. Which of the following is the most effective way of preventing dumping off in vegetable?
  - a. Treating the seed
  - b. Crop hygiene
  - c. Crop rotation
  - d. Avoid over watering
8. The coarseness and fineness of soil refers to \_\_\_\_\_?
  - a. Soil texture
  - b. Soil profile
  - c. Soil conservation
  - d. Soil structure

9. Why farmers are advised to face away when spraying chemicals?
  - a. To protect clothes from chemicals
  - b. To spray chemicals fast
  - c. To avoid inhaling the chemicals
  - d. To spray more chemicals
10. Which of the following is the sign of foot and mouth disease in goats?
  - a. Swelling of stomach
  - b. Coughing
  - c. Quick and short breathing
  - d. Severe loss of body weight

Study the farm implement and use it to answer question 11 and 12.



11. Identify the part marked A and B.
  - a. Hoe and wood
  - b. Handle and blade
  - c. Wood and metal
  - d. Blade and metal
12. Which of the following is a way of maintaining the implement.
  - a. Store it in wet room
  - b. Use it for digging
  - c. Keep it in dry place
  - d. Painting it
13. Which of the following is the major element of agricultural environment?
  - a. Manure
  - b. Light
  - c. Soil
  - d. Temperature
14. Which principal of farm business help the farmer to solve the problem of what and where to produce?
  - a. Substitution of input
  - b. Demand and supply
  - c. Comparative advantage
  - d. Farm enterprise
15. Identify the sign of maturity of guava fruits?
  - a. Fruit turns red
  - b. Seed shake inside the fruit
  - c. Fruit colour changes to light green
  - d. Fruit produces smell

16. The method of choosing good breed of cattle brought into the country for breeding is called?
- Out breeding
  - Cross breeding
  - Selection
  - Introduction
17. When is the best time to prune an agroforestry plot 1.
- When trees are young
  - When trees mature
  - At the beginning of second season
  - At the beginning of first season

*Study the indigenous farm machinery and technology below and use it to answer questions 18 and 19.*



18. Identify the farm technology?
- Winnower
  - Quern
  - Gourd
  - Leaf bag
19. State the function of the technology?
- Storing grains
  - For winnowing
  - Grinding grains
  - Storing vegetables
20. The fish in the pond weight 100 kg what is daily amount of feed?
- 10 kg
  - 20 kg
  - 2.5 kg
  - 5 kg

### SCIENCE

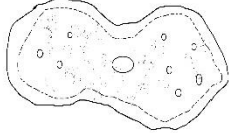
21. Which of the following is the effect of taboo and beliefs?
- High productivity every day
  - Stunted growth among children
  - Children grow well
  - Mother give birth to healthy baby
22. Which of the following part of flower develops into fruit after fertilisation
- Petal
  - Ovule
  - Ovary
  - Stigma

23. Why is it advisable to wear black clothes on a cold day?
- To look smart
  - To feel warm
  - To be seen a far
  - To feel cool
24. Why does a vacuum flask have a shiny inner surface?
- To beautify the flask
  - To transfer heat
  - To strengthen the flask
  - To reduce loss of heat
25. Which of the following causes smothering?
- Breathing in poisonous gases
  - Food entering the wind pipe
  - Covering head with plastic paper
  - Falling in water
26. Which of the following group of people are manual workers?
- Brick moulder
  - House cleaner
  - Doctor
  - Manager
27. Which of the following way can improve sound transmitted by a string of telephone?
- Lengthening the string
  - Making knots on the string
  - Loosening the string
  - Tightening
28. Which part of an ear directs sound into ear?
- Ear drum
  - Ear cannal
  - Intier ear
  - Pinna
29. Which of the following food provide proteins into the body?
- Oranges
  - White ants
  - Irish potatoes
  - Sugarcane
30. Which of the following can be dispersed by wind?
- Guava
  - Coconut
  - Dandelion
  - Beans
31. State the organ that is responsible to control the transportation of food in the body?
- Lung

- b. Heart
- c. Liver
- d. Kidney

32. Which of the following sense organs controls the temperature?
- a. Skin
  - b. Eye
  - c. Nose
  - d. Tongue

Study the diagram below and use it to answer question 33-34.



33. Name the invertebrate animal
- a. Protozoa
  - b. Arthropod
  - c. Amoeba
  - d. Millipede
34. Which of the following ways of reproduction is used by the invertebrate above?
- a. Cross breeding
  - b. Binary fusion
  - c. Sexually
  - d. Out breeding
35. The pull or push of an object is called \_\_\_\_\_?
- a. Gravitation force
  - b. Magnetic force

- c. Force
  - d. Electrostatic
36. Which of the following types of stems does Kapinga grass have?
- a. Erect stem
  - b. Climbing stem
  - c. Creeping stem
  - d. Underground stem
37. Which of the following instrument produce sound by plucking?
- a. Guitar
  - b. Whistle
  - c. Shaker
  - d. Drum
38. Why should starch be added to cotton garments in laundering?
- a. To maintain shape
  - b. Maintain size
  - c. Maintain colour
  - d. Improve stiffness
39. What is the best way of knowing one's self's HIV status?
- a. Counselling
  - b. HIV testing
  - c. Receiving ARV's
  - d. Eating moringa(chammwamba)
40. Which of the following nutritional deficiency disease is caused by lack of iron in the diet?
- a. Anaemia
  - b. Scurvy
  - c. Ricket
  - d. Goitre

### SECTION B

#### AGRICULTURE

- 41.
- a. Define soil fertility?  
\_\_\_\_\_ (1 mark)
  - b. List down two causes of soil fertility.  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)
  - c. What are the ways of controlling soil erosion?  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)
- 42.
- a. Why should farmers keep records of various farming activities? Give two.  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)
  - b. State one way of improving the availability of water for agriculture production.  
\_\_\_\_\_ (1 mark)

- c. Why should water in bucket with fingerings be of the same temperature as that in the pond during stocking?

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

43.

- a. Give two reasons why sand soil is not suitable for construction of a fish pond?

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

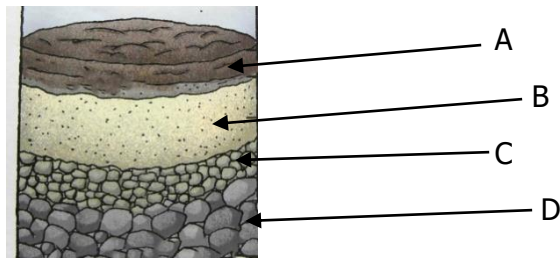
- b. Give any two importance of potassium for the plant growth and development?

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

- c. List the recommended method of applying fertilizer in rice farming?

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

**Figure 4** is an illustration showing soil profile. Use it to answer questions 44 A and B.



44.

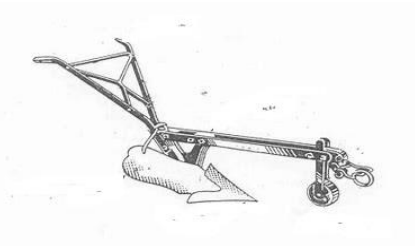
- a. Identify the part marked A.

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

- b. Give two characteristics of part marked A.

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

*Study the diagram of farm machinery. Use it to answer question 45 a, b and c.*



45.

- a. Name the farm implement

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

- b. What is the use of part marked W?

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

- c. Give any one safety measures when using the farm implement?

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

- d. Mention two factors to consider when choosing a suitable site for growing flower?

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

46.

a. What is the difference between commercial farming and subsistence farming?

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

b. Why should a vegetative garden be near school or home, give two.

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

c. Give any two types of soil structure.

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

d. Give any one characteristics of fish suitable for farming.

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

**SCIENCE**

47.

a. Mention any two groups of invertebrate animals.

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

b. Give any two importance of invertebrate's animals?

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

c. State one technology for conserving the environment.

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

48.

a. Explain the advantage of boiling method over baking method.

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

b. State two importance of under-five clinic?

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

c. State the two family planning methods used by males?

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

49.

a. Mention two classes of lever as a machinery.

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

b. What does the following symbols in a cell represent

(i) A short line: \_\_\_\_\_

(ii) A long line: \_\_\_\_\_



a cell

(2 marks)

c. Mention two types of circuits.

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(2 marks)

50.

a. State two properties of gases.

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(2 marks)

b. What is a solvent?

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(1 mark)

c. Give any two problems of digestion?

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(2 marks)

51.

a. Define a food chain?

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(1 mark)

b. What is the function of pupil of an eye?

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(1 mark)

c. Animals without skeleton moves in different ways, give any one?

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(1 mark)

d. Why is rain water ideal for laundering?

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(1 mark)

52.

a. Mention two ways of preserving food?

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(2 marks)

b. State any one characteristics of amphibians?

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(1 mark)

**END OF QUESTION PAPER**