



EXAMINATION NO _____

THE MKAIKA ZONAL MOCK EXAMINATION BOARD

2021 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION

PRIMARY SCIENCE

(100 Marks)

Subject Number: P163

Friday, 4 June

Time allowed: 2 hours
8:00 – 10:00am

Candidate Name: _____

School Name: _____

Instructions

1. This paper contains **6** printed pages. Please check.
2. This paper has two sections A and B. Section A consists 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 **12** 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. Answer **all** questions.
4. In the table provided on this page, **tick** against the question number you have answered.
5. **IMPORTANT**
 - Please make sure you have written your **name** and **examination number** on the question paper in the spaces provided.
 - Hand in your question paper to the invigilator when time is called to stop writing.

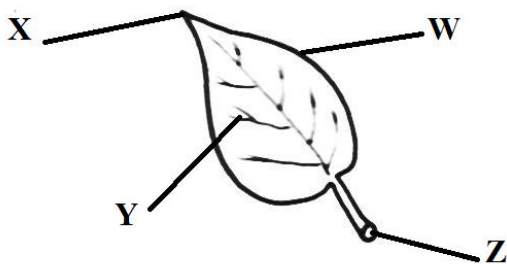
Question Number	Tick Questions 41-52 if answered	Do not write in these columns	
1-40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			

Turn Over

SECTION A: (40 marks)

AGRICULTURE

Fig 1 is a diagram showing external parts of a leaf. Use it to answer questions 1 and 2



1. Name the part marked X

A. Vein	C. Leaf stalk
B. Apex	D. Petiole
2. Which part of a leaf carry water and minerals and make the leaf stiff?

A. W	C. Y
B. X	D. Z
3. Which of the following is a way of maintaining a wheel barrow?

A. Washing	C. Sharpening
B. Greasing movable parts	D. Drying
4. Which of the following is a fruit vegetable?

A. Okra	C. Lemon
B. Mango	D. Cabbage

Fig 2 is diagrams of a seed use it to answer question 5.



5. What characteristic is adapted for its dispersal?

A. Has hair	C. Has wings
B. Has seed	D. Has spines
6. Why is it important to have box ridges in a garden?

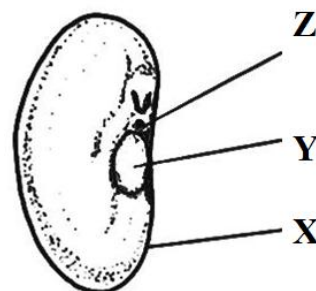
A. They hold water
B. They control pests
C. They increase soil fertility

- D. They control weeds
7. Give one adaptation for a fish to live in water

A. Has moist skin
B. Has scales
C. Has gills for gaseous exchange
D. Has tail fin for movement
8. Define fallowing as a way of improving soil fertility.

A. Growing different crops on the same piece of land
B. Plants and organic wastes which have decomposed
C. Growing trees with arable crops
D. Leaving the uncultivated land for some time so that bush grows

Fig 3 is a diagram of bean seed. Use it to answer question 9 and 10



9. What is the function of the part X?

A. Stores food for the growing seedling
B. Protect the seed
C. Grows into new shoot
D. Add nutrients to the developed seed
10. Identify the part marked Z

A. Hilum	C. Plumule
B. Testa	D. Micropyle
11. Write one importance of hedges as flowers

A. Form fences
B. Attracts predators such as snakes
C. Add nutrients in the soils
D. Hedge stalks can be used for timber for furniture
12. Which of the following are activities done during land preparation?

A. Ploughing	C. Banding
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- B. Weeding D. Thinning
13. The arrangement of soil particles to form different shape is known as
A. Soil profile C. Soil texture
B. Soil structure D. Soil erosion
14. The process in which water is lost through plants and vapours is called
A. Transpiration C. Condensation
B. Siltation D. Evapotranspiration
15. Which of the following is a sign of foot and mouth diseases in cattle?
A. Diarrhoea C. Excessive salivation
B. Coughing D. Sleepiness
16. How can you improve the local goats?
A. In breeding C. Browsing
B. Grazing D. Cross breeding
17. Why is a pruning fruit tree important from bottom going upward?
A. To avoid tearing of a branch
B. To reduce friction and rubbing
C. To straighten the tree
D. To cultivate desired crops

Study the **fig 4** and use it to answer questions 19 and 19



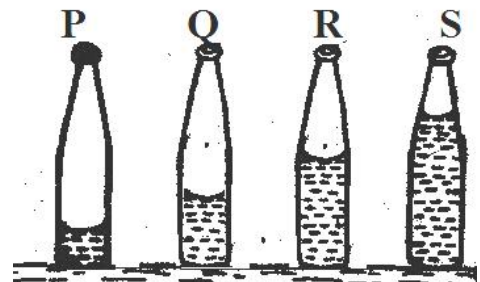
18. Write the importance of the fruit product shown
A. Source of income after selling
B. Source of water
C. Source of fish
D. Source of rain
19. What raw materials can be used to produce the product?
A. Hot pepper C. Garlic
B. Sugarcane D. Tomato
20. What is the advantage of stocking maize before harvesting?
A. Control mice
B. Reduce amount of labour
C. Save time when harvesting

D. Encourages drying

SCIENCE AND TECHNOLOGY

21. Which of the following is an indigenous food preservation?
A. Refrigeration C. Soot
B. Salting D. Canning
22. Which of the following musical instrument produce sound by plucking?
A. Guitar C. Flute
B. Whistle D. Drum

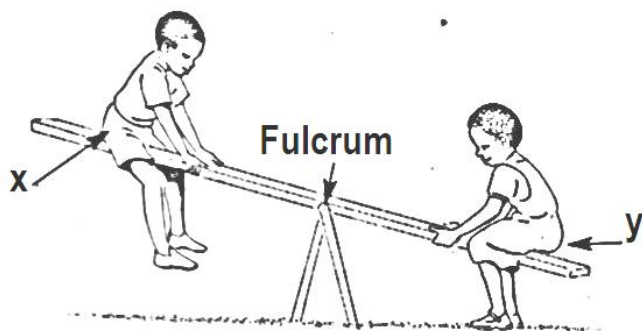
Fig 5 are bottles filled with water at different levels. Use it to answer questions 23 and 24.



23. Which bottle would produce a high pitched sound
A. P C. R
B. Q D. S
24. Suggest a reason for the answers in 23
A. Because bottle P has large volume which air occupies
B. Because bottle Q has water filled half way
C. Because bottle R has a smaller vacuum compared to P and Q
D. Because bottle S has a small vacuum which air occupied.
25. Which food value can one get from eating grasshoppers?
A. Proteins and fats C. Vitamins
B. Carbohydrates D. Water
26. Write one disadvantages of modern technology to the youth
A. High cost
B. Exposure to pornographic movies
C. Increased risk of skin rashes
D. High school drop outs
27. How can you dispose wet refuse
A. Collected into dust bins
B. Burning them
C. To be lead into a soak pit

- D. Recycling
28. The heart pumps blood to the lungs through
- A. Vena cava C. Pulmonary vein
B. Aorta D. Pulmonary artery
29. Define saturated solution
- A. Solution of salt and water
B. When a solvent cannot dissolve more soluble solutes
C. When a solvent dissolves soluble solutes
D. Solution of sugar and water
30. Which of the following diseases affect the breathing system
- A. HIV/AIDS C. Malaria
B. Covid – 19 D. Diarrhoea

Study the figure 6 and answer questions 31 and 32.



31. Identify the load in the diagram
- A. X C. Fulcrum
B. Y D. The pole
32. Which order of leavers is shown in the diagram
- A. First order C. Third order
B. Second order D. Fourth order
33. What do you call the union of male gametes and female gametes?
- A. Sexual intercourse C. Unity
B. Fertilization D. Zygote

34. Give one factor to consider when costing toys
- A. Material used
B. Nearness to school
C. Availability of radios for advertisement
D. Availability of water
35. Which of the following is an animal fibre
- A. Asbestos C. Aluminium
B. Linen D. Silk
36. How can you separate Kachaso beer from water
- A. Magnetism and sedimentation
B. Winnowing and sieving
C. Distillation and condensation
D. Winnowing and filtration
37. Write example of vegetable stain
- A. Blood C. Cocoa
B. Dyes D. Soot

38. Write one technology that uses reflection of light
- A. Car mirror C. Telescope
B. Microscope D. Pair of binoculars
39. Write one way of improving a traditional kitchen
- A. Use three corner stones
B. Fixing surface and shelves
C. Use poles when constructing
D. Close all windows to allow food to be cooled easily

40. Identify the symbol in a circuit



- A. Cell C. Fuse
B. Bulb D. Switch

Section B (60 marks)

AGRICULTURE

41. (a) State two factors to consider when designing an agroforestry plot (2 marks)
- i. _____
- ii. _____

(b) Identify the house for rabbits _____ (1 mark)



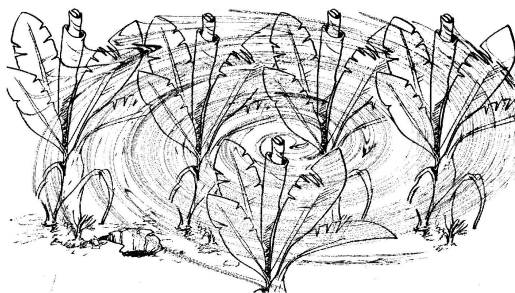
(c) Mention two diseases of leaf vegetables (2 marks)

- i. _____
- ii. _____

42. (a) Give three reasons for pruning flowers (3 marks)

- i. _____
- ii. _____
- iii. _____

Study the diagram below



(b) Identify the risk associated with a farm business (1 mark)

(c) Mention two ways of coping with risks in a farm business above (2 marks)

- i. _____
- ii. _____

43. (a) Why are fruits important (Give three reasons) (3 marks)

- i. _____
- ii. _____
- iii. _____

44. (a) Mention the area in which the following fruits are mostly grown in Malawi

- a. Tangerine: _____ (1 mark)
- b. Mangoes: _____ (1 marks)

45. (a) Group the following plants according to the method of propagation
Maize, Cassava, Beans, Sugarcane, Mango, Bamboo (6 Marks)

- i. Seed: _____
- ii. Stem cuttings: _____

(b) Give two ways of processing fish (2 marks)

- i. _____
- ii. _____

46. (a) What are farm records _____ (2 marks)

(b) The large amount of water stored below earth's land surface refers to _____ (2 marks)

47. (a) What is the use of beam in a plough _____ (2 marks)

SCIENCE AND TECHNOLOGY

48. (a) Which foods should be given to the people suffering from HIV/AIDS to be health? Name three
 i. _____ ii. _____ iii. _____
 (3 marks)

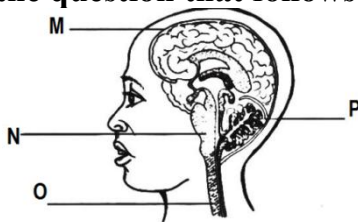
(b) Define family size _____
 _____ (2 marks)

(c) Give two activities that can lead to the destruction of the environment (2 marks)

i. _____ ii. _____

(d) Why is it important to improve the quality of products (2 marks)

49. Study the diagram and answer the question that follows



(a) Name the Parts labelled (2 marks)

N _____ P _____

(b) What is the function of P? (2 Marks)

(c) Mention two ways of caring for the skin (2 marks)

i. _____

ii. _____

50. (a) State two advantages of food processing (2 marks)

i. _____

ii. _____

(b) Give the meaning of the following terms (2 marks)

a. Solution: _____

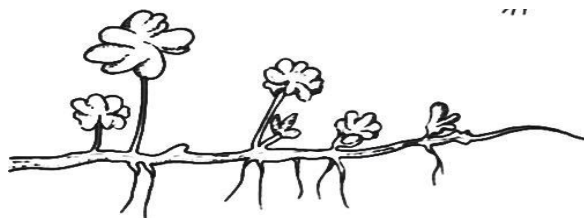
b. Solvent: _____

(c) Why are under – five clinics important? Give two reasons. (2 marks)

i. _____

ii. _____

51. Study the diagram below



(a) Identify the type of stem _____
 _____ (2 marks)

(b) Mention the root system of Onions _____ (1 mark)

(c) Give guidelines for planning meals for manual workers (2 marks)

i. _____ ii. _____

52. Give two suitable food that can be given to someone suffering from night blindness

i. _____ ii. _____ (2 marks)

END OF QUESTIONS PAPER

NB: This paper contains 6 printed pages