



Examination No: _____

NKHATA BAY DISTRICT EXAMINATIONS COMMITTEE
2023 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION
PRIMARY SCIENCE

(100 marks)

Friday, 24 February

Subject number: P163

Time Allowed: 2hours

08:00 – 10:00 am

Name of Candidate: _____

(Surname First)

Name of School: _____

Instructions

- 1. This paper contains 8 pages. Please check.**
- 2. This paper has two sections A and B. Section A** consists of 40 multiple choice questions carrying 1 mark each. **Section B** has 10 structured questions. Write answers to this section in the space provided.
- 3. Answer all questions.**
- 4. In the table provided on this page, tick against question number you have answered.**
- 5. IMPORTANT**
 - Please make sure you have written your **name, school 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 Qs 51-60 if answered	Do not write in these columns	
1-40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			

SECTION A (40 MARKS)

AGRICULTURE

1. To which sub-branch of agriculture does hibiscus and night queen belong?
A. floriculture C. olericulture
B. arboriculture D. apiculture
2. Which agricultural element can be managed by mulching?
A. wind C. sunlight
B. animals D. soil

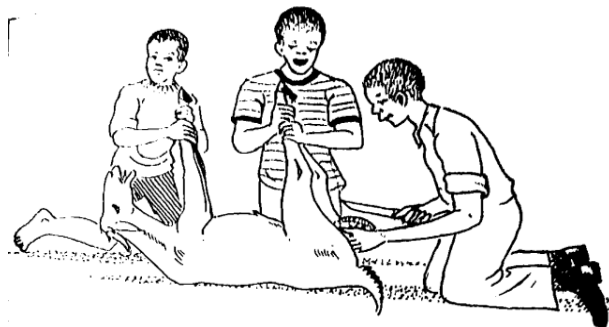
Figure 1 is a diagram showing a farm tool. Use it to answer questions 3.



3. Identify the farm tool.
A. rake C. sickle
B. panga D. axe
4. Why is careless cutting down of trees dangerous?
A. cause global warming.
B. causes high level of water in rivers.
C. farmers are able to harvest a lot of crops.
D. fish are not easily caught.
5. The following are cash crops **except** ____
A. cucumber C. tobacco
B. cotton D. tea
6. Which group of pests damage young plants of maize?
A. maize weevils and army worm.
B. stalk borer and maize weevils.
C. army worm and red locust.
D. red locust and maize weevils.

7. Which of the following is the common disease of cattle?
A. new castle C. rusts
B. anthracnose D. trypanomiasis
8. Which of the following soil nutrients is responsible for development of strong stems and quality of fruits?
A. nitrogen C. chlorine
B. phosphorus D. potassium

Figure 2 is an animal husbandry practice. Use it to answer questions 9.



9. Which animal husbandry practice is being done?
A. drenching C. vaccination
B. feeding D. castration
10. Which of the following are indigenous type of fruits?
A. Mateme and malambe
B. Mangoes and malambe
C. Tamarind and guavas
D. Guavas and matowo
11. Why should the deepest part of the pond be 1 meter to 1.5 meters?
A. for easy to see fish in the pond
B. for easy harvesting of fish
C. to allow the sunlight to reach the bottom hence growth of plankton
D. to avoid predators to reach the bottom

12. Which is the best way to keep grass short around the pond?

- A. weeding the pond
- B. slashing the pond
- C. by grazing animals
- D. by raising ducks around it.

13. Why is Malawian Zebu suitable for Malawi condition?

- A. grows fast.
- B. high meat and milk production.
- C. can withstand hot weather.
- D. low resistance to diseases.

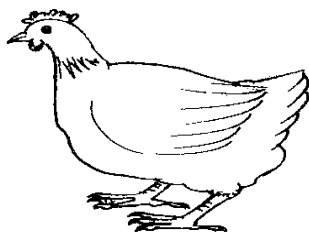
14. Which of the following are examples of roughages?

- A. maize stalks and maize bran
- B. maize meal and groundnuts haulms
- C. cotton seed cake and madeya
- D. rice straws and sorghum stalks

15. Which of the following are legume vegetables?

- A. peas and beans
- B. cowpeas and luni
- C. beans and carrots
- D. beans and onions

Figure 3 is a diagram of animal. Use it to answer questions 16.



16. Why is the animal important to crops?

- A. source of meat
- B. source of manure
- C. source of employment
- D. source of food

17. Why should a deep litter khola be clean and dry for rabbits?

- A. for easy breeding of rabbits
- B. for fast growing of rabbits
- C. to avoid infestation of maggots
- D. to prevent predators

18. Which of the following is a reason to select seeds free from diseases?

- A. for fast growing
- B. to prevent passing diseases to the growing plant
- C. to provide enough food for growing embryo
- D. can lead to late maturity

19. Why is it important to grease the moving parts of a wheel barrow?

- A. to prevent accident
- B. to avoid friction
- C. for fast movement of wheelbarrow
- D. for easy overloading

20. Why is a farming calendar of Nkhata Bay different from Chikwawa?

- A. because Nkhata Bay is in the North.
- B. because rubber is grown in Nkhata Bay.
- C. because rainy seasons begins differently
- D. because cotton is grown in Chikwawa.

SCIENCE AND TECHNOLOGY

21. Why is soaking of cassava important to indigenous technology?

- A. to remove cyanide poison
- B. to have white flour
- C. to reduce the mass
- D. to avoid diseases

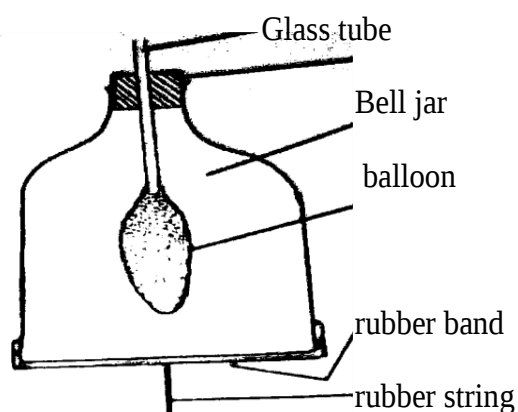
22. What would happen if there was no green plants in the food chain?

- A. there would be a clean place to live
- B. animals would start to drink water
- C. there would be no animal life
- D. there would be more soil

23. Which blood vessel carry oxygenated blood?

- A. aorta
- B. pulmonary vein
- C. pulmonary artery
- D. venacava

Figure 4 shows a lung model. Use it to answer questions 24, 25 and 26.



24. Which part of breathing system is represented by balloons?
 - A. heart
 - B. nose
 - C. lungs
 - D. stomach
25. What happens when you pull the string down?
 - A. the balloons expand
 - B. the balloons contract
 - C. the bell jar contracts
 - D. the glass tube relaxes
26. Which breathing system is demonstrated by pulling the string?
 - A. inhalation
 - B. exhalation
 - C. expiration
 - D. breathing out
27. What is the result of overcooking vegetables?
 - A. loses taste
 - B. killing germs
 - C. vegetables become very taste
 - D. vegetables lose nutrients
28. What secondary product can you get from groundnuts?
 - A. peanut butter
 - B. nthendero
 - C. roasted groundnuts
 - D. thobwa
29. Why is wax important in the ear canal?
 - A. To soften the ear
 - B. To vibrate the sound
 - C. For easy passage of sound
 - D. To protect the ear drum
30. Which of the following is a hinge joint?
 - A. skull and knee
 - B. wrist and elbow
 - C. knee and elbow
 - D. knee and hip
31. Which of the following cause burns?
 - A. dry heat
 - B. hot vapour
 - C. hot water
 - D. accident
32. Which part of the flower attracts bees?
 - A. sepal
 - B. petals
 - C. stigma
 - D. anthers
33. What is the function of micropyle to the seed?
 - A. for the attachment of the pod
 - B. to store food for growing embryo
 - C. to allow water and air to enter the seed
 - D. it grows into the shoot
34. To which group of animals does a bat belong?
 - A. birds
 - B. mammals
 - C. amphibians
 - D. reptiles
35. Which of the following is the best defensive mechanism of chameleon?
 - A. camouflage and hissing
 - B. hissing and biting
 - C. camouflage and biting
 - D. producing harmful substance and biting
36. Which force is produced as a result of rubbing two bodies?
 - A. magnetic force
 - B. electric force
 - C. frictional force
 - D. elastic force
37. Which of the following technologies uses the principle of refraction?
 - A. telescope and microscope
 - B. periscope and telescope
 - C. microscope and periscope
 - D. car mirror and periscope

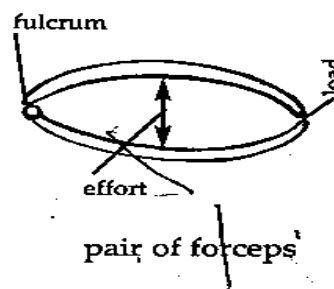
38. Why is it important to dispose the refuse from the house?

- A. to attract visitors at home
- B. to make the house untidy
- C. to prevent people from visiting the house
- D. to prevent the spread of diseases

39. Which of the following is an effect of food taboos and beliefs on people's health?

- A. it increase faith in believers
- B. it saves food wastage
- C. it results in malnutrition in young children
- D. money is saved from buying food

Figure 5 shows a class of lever. Use it to answer questions 40



40. To which class of lever does it belong?

- A. class three levers
- B. class two levers
- C. class one lever
- D. class four lever

SECTION B (60 MARKS)

AGRICULTURE

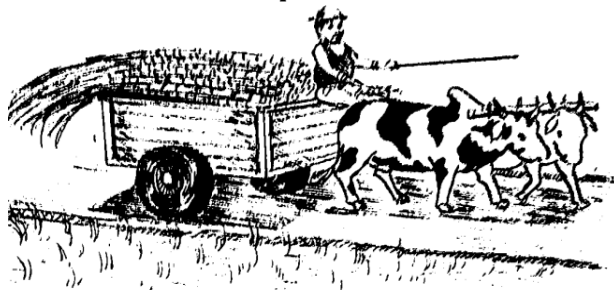
41. (a) State **two** activities involved in management.

_____ (2 marks)

(b) Give a reason why land should have a gentle slope as a factor of production.

_____ (1 mark)

Figure 6 is a marketing function. Use it to answer question 43.



42. (a) Identify a marketing function shown above.

_____ (1 mark)

(b) Give **two** reasons why the marketing function is important to a farmer.

i. _____ (1 mark)

ii. _____ (1 mark)

(c) Name two examples of storage facilities for maize.

i. _____ (1 mark)

ii. _____ (1 mark)

43. (a) Classify the variety of groundnuts and cassava.

Chitembwere, chitembana, kakoma, silira, mkondezi

Groundnuts: _____

Cassava : _____ (5 marks)

(b) Why is it important to apply actellic to cassava when stored?

_____ (1 mark)

44. (a) Mention **two** things that must be added to chicken feed for strong egg shells.

i. _____ (1 mark)

ii. _____ (1 mark)

(b) Write down **two** characteristics of a good hen.

i. _____ (1 mark)

ii. _____ (1 mark)

45. Give **two** examples of fruits that can be propagated by:

i. Suckers: _____ (2 marks)

ii. Stem cuttings: _____ (2 marks)

46. (a) Give **one** example of fish suitable for farming.

_____ (1 mark)

(b) State **one** reason why a pond must be on a gentle slope?

_____ (1 mark)

(c) In a pond all fish weighs 75kg. Calculate the amount of feed required in a week if fish are fed at the rate of 5% of their body weight daily.

_____ (2 marks)

Figure 7 is a feeding habit of goat. Use it to answer question 47.



47. (a) State the feeding habit of the goat.

_____ (1 mark)

(b) Define a guild.

_____ (1 mark)

(c) State **one** example of guild in permaculture.

_____ (1 mark)

- (d) Why are termites and worms important in agriculture? _____ (1 marks)

SCIENCE AND TECHNOLOGY

48. (a) State **two** delicate parts of the body which are protected by the ribcage.
- i. _____ (1 mark)
- ii. _____ (1 mark)

- (b) Give a reason why tendons are important to the skeleton.
- _____ (1 mark)

- (c) Mention **two** digestive functions of a tongue.
- i. _____ (1 mark)
- ii. _____ (1 mark)

Figure 8 shows a nutritional deficiency disease. Use it to answer question **49**.



49. (a) Identify the nutritional deficiency disease. _____ (1 mark)

- (b) Why is sunlight important to the child? _____ (1 mark)

- (c) Why should iron food be given to elderly? _____ (1 mark)/

50. (a) What type of stem does a pumpkin have? _____ (1 mark)

- (b) State the features that the pumpkins have to help the type of the stem. _____ (1 mark)

- (c) Explain how photosynthesis occurs in green plants.
- _____

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- _____ (2 marks)
51. (a) Name **one** material that can be used to make a cycling toy.
_____ (1 mark)
- (b) Give **two** ways of marketing toys.
i. _____ (1 mark)
ii. _____ (1 mark)
- (c) What happens in large intestines (colon) during digestion?

_____ (1 mark)
52. (a) Give **two** importance of changing the state of matter.

_____ (2 marks)
- (b) Define sublimation.

_____ (1 mark)
- (c) State **two** technologies which can help to conserve the environment.
_____ (2 marks)
- (d) Give **two** human activities which can lead to destruction of environment.

_____ (2 marks)
53. (a) Name the component of blood responsible for blood clotting.
_____ (1 mark)
- (b) State **two** examples of respiratory diseases to human beings.
_____ (2 marks)
- (c) Why does an insect visit a flower?
_____ (1 mark)
54. (a) Give **two** input devices of a computer.

_____ (2 marks)
- (b) Why should food for manual workers have a lot of fluid?
_____ (1 mark)

END OF QUESTION PAPER