



EXAMINATION NO: _____

NKHULAMBE ZONE EXAMINATIONS BOARD

2021 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION

PRIMARY SCIENCE

(100 marks)

Friday, 25 June

Subject No: P163

Time Allowed: 2 hours

Time: 8:00 – 10:00 am

Name of Candidate: _____

(Surname First)

Name of School: _____

Instructions:

1. This Paper contains **8 Pages**. Please check.
2. Please make sure you have written your **examination number**, **Name** and **School Name** on the question paper in the space provided.
3. This paper has **two** sections **A** and **B**. Section **A** consist of **40** multiple questions carrying **1** mark each. Encircle a letter of your choice representing the right answer of each question. Section **B** has **12** structural questions. Write your answers to this section on the question paper provided. The maximum number of marks for each answer is indicated against the question.
4. Answer all questions
5. In the table provide, **tick against** the question number you have answered.

IMPORTANT

- Please make sure you have written your **name** and **school name** on the question paper
- Hand in your Examination 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			

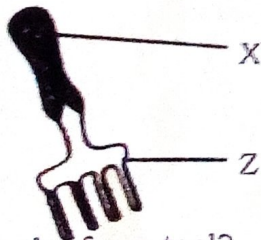
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Section A (40 Marks)

Agriculture

1. Why is Chambo fish suitable for fish pond?
 - A. it is cheap to produce
 - B. it is disease resistant
 - C. it can feed on Mgaiwa
 - D. has its own breeding season
2. Which of the following is a sub-branch of agriculture under animal production?
 - A. Silviculture
 - B. Apiculture
 - C. Pomoculture
 - D. Arboriculture
3. Why should grass be planted on the sides of a fish pond?
 - A. the grass add beauty to the pond
 - B. the grass controls soil erosion
 - C. the grass is an extra source of food
 - D. the grass keep the fish predators out of the pond
4. Which of the following farm records show records of daily activities by a farmer from land preparation to harvesting?
 - A. field operation record
 - B. crop record
 - C. yield record
 - D. crop record
5. Which of the following crops is suitable for flooding irrigation?
 - A. fruits
 - B. sugarcane
 - C. rice
 - D. tea

Figure 1. Below is a farm tool. Use it for questions 6 and 7.



6. Name the farm tool?
 - A. rake
 - B. hand fork
 - C. sickle
 - D. hand trowel

7. Part labelled X is called.
 - A. metal
 - B. rake
 - C. hand fork
 - D. handle
8. List any two varieties of cassava.
 - A. Gomani and Chitembwere
 - B. Mbudumali and Baka
 - C. Kakona and Baka
 - D. Maluwa and Sirira
9. Which of the following disease can affect rabbits?
 - A. Tape worm and Coccidiosis
 - B. Coccidiosis and sore hooks
 - C. Coccidiosis and coccidian
 - D. Rabbit pox and coccidian
10. Why should a farmer transplant flower seedlings in a cool day?
 - A. to reduce labour
 - B. to control pest
 - C. to carry the flowers easily
 - D. to prevent the flowers from wilting

Figure 2. below represents sample of soil structure. Use it to answer question 11 and 12.



A



B

11. Identify soil structure A
 - A. compact
 - B. crumb
 - C. loose
 - D. clay
12. Which crop is suitable for structure B?
 - A. Maize
 - B. Rice
 - C. Cassava
 - D. Potatoes

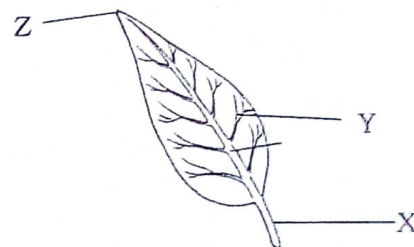
13. What type of feed is given to a day old broiler?
 A. layers mash
 B. growers mash
 C. finisher mash
 D. starter mash
14. Which of the following is a characteristic of indigenous trees?
 A. grow fast
 B. have soft wood
 C. big inside
 D. with stand drought
15. To which class of vegetable do beans belongs to?
 A. root
 B. legume
 C. fruit
 D. leaf
16. 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
17. Which of the following breeds of cattle is suitable for milk production?
 A. Hereford
 B. Africader
 C. Fresian
 D. Brahman
18. Farming may be taken as a business because.
 A. farmers buy and resell items
 B. farmers produce and sell items to make money
 C. farmers produce and buy items
 D. farmers buy produce and make money
19. The two main classes of animals feeds are
 A. hay and silage
 B. green grass and legumes
 C. roughage and maize
 D. roughage and concentrates

20. The following are the factors of production **except**
 A. size
 B. land
 C. labour
 D. capital

Science and technology

21. Which of the following technologies is indigenous?
 A. sewing machine
 B. cell phone
 C. grinding stone
 D. electric kettle
22. The predicted answer in Scientific investigation
 A. variable
 B. hypothesis
 C. conclusion
 D. prediction

Figure 3. Is a part of a plant. Use it for questions 23 and 24



23. Identify part labelled **Z**
 A. petiole
 B. midrib
 C. lamina
 D. apex
24. What is the function of the part labelled **X**?
 A. for photosynthesis
 B. to resist disease
 C. it connects leaf to a stem
 D. it control soil erosion
25. A mushroom does **not** produce its own food because it has no _____
 A. chlorophyll
 B. roots
 C. truestem
 D. leaves

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26. Name the type of fins, which help fish for balancing and braking?

- A. anal fins
- B. adipose
- C. ventral fins
- D. pectoral fins

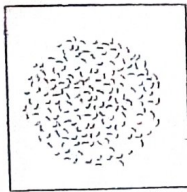
27. What method of cooking food required pre-heating on oven?

- A. steaming
- B. baking
- C. roasting
- D. boiling

28. Which of the following is the **best** way of preventing HIV and AIDS?

- A. abstaining from sex
- B. using condom correctly
- C. avoid having more sexual partner
- D. avoiding culture practice

Figure 4. Is a worm infection. Use it to answer question 29 and 30.



29. Which of the following is **not** sign and symptoms of the worm?

- A. abnormal pain
- B. anaemia
- C. swollen belly
- D. weakness

30. The worm infection is prevented by

- A. cooking meat thoroughly
- B. wearing boots in wet places
- C. washing fruits
- D. proper inspection of meat

31. Which of the following parts of blood is used for defending the body against disease?

- A. platelets
- B. red blood cells
- C. plasma
- D. white blood cells

32. Which of the following is an indirect source of light?

- A. star
- B. fire
- C. moon
- D. bulb

33. Which structure of the body attaches ^{above} to another bones?

- A. ligaments
- B. nerves
- C. tendons
- D. capillaries

34. A substance in which something dissolves is called

- A. suspension
- B. solution
- C. solute
- D. solvent

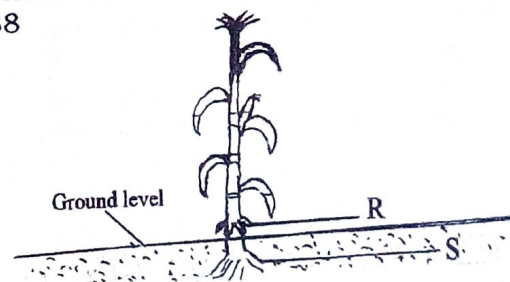
35. Which of the following is a family planning method for both male and female?

- A. the diaphragm
- B. use of condom
- C. vasectomy
- D. tubal ligation

36. What happens to the diaphragm when breathing in

- A. move up and out
- B. contract
- C. become flat
- D. relax

Figure 5. Is a diagram showing a maize plant. Use it to answer questions 37 and 38



37. The root marked **R** and **S** are

- A. prop and aerial
- B. aerial and adventitious
- C. prop and fibrous
- D. adventitious and fibrous

Continued/...

38. Which of the following is the main function of root marked **R**.

- A. taking food from the soil
- B. supporting the plant
- C. taking in air for the plant
- D. storing food for the plant

39. Which of the following is the effect of drug and substance abuse?

- A. happiness
- B. healthy body
- C. increase strength
- D. violence

40. Which of the following is the advantages of traditional kitchen over a modern kitchen?

- i. it has a working surface
- ii. it is easy to maintain
- iii. it is cheap to maintain
- iv. it has limited space

- A. ii and iii
- B. i and ii
- C. i and iv
- D. ii and iv

Section B (60 Marks)

Agriculture

41. a) Define "agricultural environment"

(2marks)

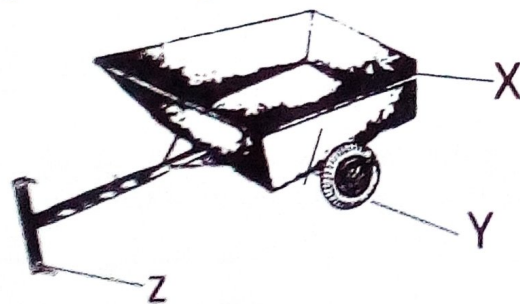
b) List down two examples of agricultural environment.

(2marks)

c) State one way in which soil is import to agricultural production.

(1mak)

42. **Figure 6.** Is a diagram showing a farm tool. use it to answer the following question



a. Name the farm tool.

(1mark)

b. Name the part labelled Z.

(1 mark)

c. What are the functions of the parts labelled **X** and **Y**.

X: _____

Y: _____

43. a. Identify any two factors to consider when selecting seeds and planting materials for cassava and groundnuts.

(2marks)

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(2marks)

b. Give any two effects of weeds in groundnuts and cassava.

c. List any two minor nutrients.

(2marks)

44. a. Define farm records.

(2marks)

b. Give two importance of keeping farm records.

(2 marks)

c. List two characteristics of exotic trees.

(2marks)

45. a. Mention any two risky associated in farm business.

(2marks)

b. Give any **one** way of coping with risky in farm business.

(1mark)

c. List any two activities involved when preparing land for growing fruits. (2marks)

46. A farmer bought chicken at K 800.00, feed at K 1500.00 and paid K 700.00 for labour at her farm. Calculate the profit she made if the chickens were sold at K5000.00

(4marks)

SCIENCE AND TECHNOLOGY

(2marks)

47. a) What are herbivores?

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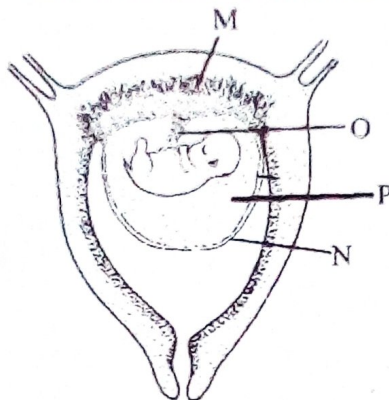
b) Explain two ways of classifying animal.

(2marks)

c) Identify any two types of joint.

(2marks)

48. **Figure 7.** Is a diagram showing a human embryo attached to the uterus wall.



a. Name the part labelled M and N

(2marks)

M: _____ N: _____

b. Mention any two substance that pass through the part labelled O

c. State the function of the part labelled P.

(1 mark)

49. a) Mention any one change which is common to both boys and girls during puberty

_____ (1mark)

b) Why is casual sex among school boys and girls bad? Give two reasons.

(2marks)

c) Give any two dangers of teenage pregnancies.

(2marks)

50. a) Define laundry.

(2marks)

b) State two examples of rooms of a house

- (i) _____
- (ii) _____

c) Mention any one type of vegetarians. (1mark)

51. a) Give two agents of seed dispersal.

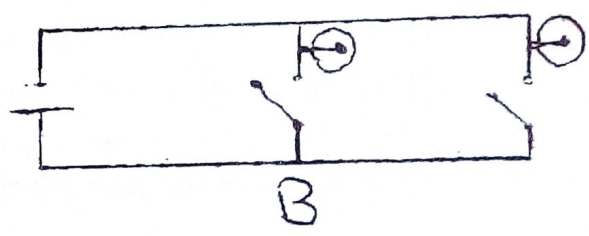
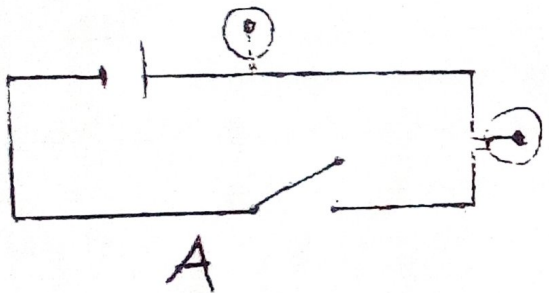
(2marks)

b) Give a reason why seed dispersal is important?

c) Explain any factors that affects the solubility of kitchen salt.

(2marks)

52. Below are the electric circuits. Use it to answer question that follow



a. Name the circuit A and B.

A: _____

B: _____

(2marks)

b. Explain two reasons why circuit B is better than circuit A.

(2marks)

END OF QUESTION PAPER

NB: This paper contains 8 printed pages. Please check.