



NCHALO ZONE EXAMINATION BOARD

2021 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATIONS

PRIMARY SCIENCES (100 marks)

DATE: ____/____/____

TIME ALLOWED: _____

Candidate name: _____
(Surname First)

School Name: _____

Instruction:

1. This paper consists of 9 printed pages. Please check
2. Write your **Examination Number** at the top of this paper.
3. This paper consists of two sections: **A and B**.
4. Answer all questions in section **A** and **B**. In section **A** encircle the letter **A, B, C or D** representing the correct answer. In section **B** write your answers in the spaces provided after each question.
5. In the table provided on the left side of this page, tick against the question you have answered.
6. Follow the instruction of each of each question carefully.
7. **IMPORTANT**,
 - Please make sure that you have written your name , school name and examination number on each question paper.
 - Please hand in your filled question to the **invigilator** at the end of examination.

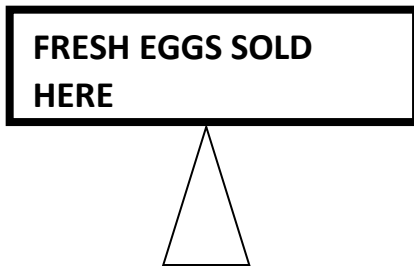
Question Number	Tick if answered	Do not write in these columns	
1-40			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			

SECTION A : AGRICULTURE (40 Marks)**MULTIPLE CHOICE QUESTIONS**

In each of the following questions, choose the letter (A,B,C or D) that best completes the sentence.

1. Which of the following is a sub –branch under animal production?
 - A. Olericulture
 - B. Poultry
 - C. Agronomy
 - D. Silviculture
2. Which of the following is a harmful effect of plants on farm animals?
 - A. Makes farm animals healthy
 - B. Destroy crops
 - C. Kill farm animals
 - D. Leads to poor growth
3. Which of the following crops is a variety of cassava?
 - A. Malimba
 - B. Kakoma
 - C. Baka
 - D. Manyokola
4. Which of the following is not a physical farm record?
 - A. Field operation record
 - B. Labour records
 - C. Crop records
 - D. Sales records
5. 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
6. Which of the following is a characteristic of clay soil?
 - A. Has medium air space
 - B. Feels course
 - C. Feels sticky when wet
 - D. Has large air space
7. Which of the following factor is necessary for selecting good seeds for planting?
 - A. Colour
 - B. Wholeness
 - C. Shape
 - D. Size
8. Which of the following is a sign of anthrax in goats?
 - A. Quick breathing
 - B. Blisters on feet
 - C. Swelling of stomach
 - D. Saliva coming out
9. Which of the following breeds of cattle can be cross bred with Malawi Zebu to increase milk production?
 - A. Fresian
 - B. Brahman
 - C. Hereford
 - D. Charolasis
10. Which of the following is a characteristic of a natural forest?
 - A. Trees are grown for a purpose
 - B. Trees grow without uniformity
 - C. Trees are cared for
 - D. Trees are properly spaced
11. Which of the following is the use of a rake?
 - A. Lifting seedlings
 - B. Leveling beds
 - C. Making holes
 - D. Loosening soil
12. Why should a cage for a buck be slightly larger than for a doe?
 - A. To have enough ventilation
 - B. To control parasites
 - C. To keep more rabbits
 - D. To ease mating

Figure 1 is a diagram showing one of the marketing functions.



13. What marketing function is involved here?
 - A. Buying
 - B. Advertising
 - C. Transporting
 - D. Storage
14. The principle of 'substitution of inputs' helps to solve the problem of _____ .
 - A. Where to sell
 - B. When to sell
 - C. How to produce
 - D. What to produce
15. Which system of agro-forestry involves planting trees and shrubs along the boundaries of arable crops?
 - A. Alley cropping
 - B. Live fence
 - C. Fodder bank
 - D. Improved fallow
16. What type of feed is given to a day old broiler?
 - A. Layers mash
 - B. Growers mash
 - C. Starter mash
 - D. Finisher mash
17. What type of a house is recommended for chickens kept under free range system?
 - A. Deep litter
 - B. Semi intensive
 - C. Battery cage
 - D. Traditional

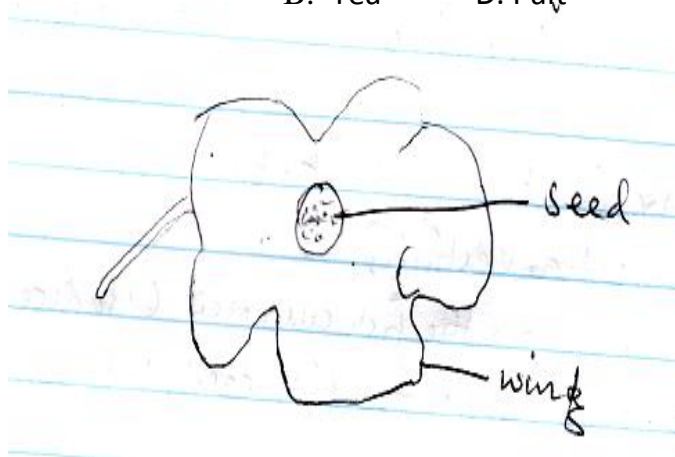
18. Why is it important to advertise fish for sell before harvesting?
 - A. To know the fish customers
 - B. To transport the fish easily
 - C. To determine price of the fish
 - D. To package the fish
19. Which of the following is the function of a lance in a sprayer?
 - A. Keeping spray
 - B. Controlling spray
 - C. Delivering spray
 - D. Filtering spray
20. Which of the following is the effect of siltation in a garden?
 - A. Blocks irrigation pipes
 - B. Increases evaporation
 - C. Reduces competition
 - D. Pollutes top soil

SCIENCE AND TECHNOLOGY

21. Which of the following is the last stage in scientific investigation?
 - A. Knowing the problem
 - B. Implementation stage
 - C. Concluding stage
 - D. Evaluation
22. Which of the following is the largest part of the brain?
 - A. Spinal cord
 - B. Medulla oblongata
 - C. Cerebrum
 - D. Cerebellum
23. Which of the following animals are herbivores?
 - A. Crocodile and chicken
 - B. Leopard and dog
 - C. Lion and buffalo
 - D. Cow and antelope

Study the figure below to answer questions 24 and 25:

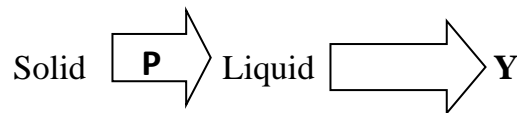
- A. Egg C. Milk
B. Tea D. Pait



24. Identify the seed shown above.
A. Mlombwa
B. Cotton
C. Nakabwazi
D. Bluegum
25. Which way of seed dispersal does the seed identified above get dispersed?
A. Animal
B. Water
C. Wind
D. Explosive mechanism
26. Which of the following is an example of a vegetable stain?
A. Egg C. Milk
B. Tea D. Pait
27. What type of force is produced as a result of rubbing two objects?
A. Gravitational force
B. Magnetic force
C. Elastic force
D. Frictional force

28. Which of the following sense organs is used for touching?
A. Nose
B. Skin
C. Tongue
D. Ear
29. Which of the following crops has an erect stem?
A. Pumpkin
B. Pawpaw
C. Sweet potato
D. Banana
30. Which part of the seed develops into the root system?
A. Plumule
B. Hilum
C. Scar
D. Radicle

Figure 3 is a diagram showing changes of state of matter. Use it to answer questions 31 and 32



31. What process is represented by the letter P?
A. Melting
B. Freezing
C. Evaporation
D. Condensation
32. How could the change of matter labelled Y be useful to human beings?
A. Drying clothes
B. Brewing beer
C. Forming rain
D. Preserving food
33. Which of the following is the function of sepals in flowers?
A. Receives pollen
B. Produces pollen
C. Protects flower before it comes out
D. Develops into seed

34. Which of the following machines uses the principle of levers?
A. Pulley
B. Wedge
C. Screw
D. Spanner
35. The heart pumps blood to the lungs through _____
A. Venacava
B. Aorta
C. Pulmonary artery
D. Pulmonary vein
36. A substance in which something dissolves is called _____
A. Suspension
B. Solution
C. Solute
D. Solvent
37. Lack of vitamin A in the diet can cause _____
A. Diarrhoea
B. Scurvy
C. Beri-beri
D. Night blindness

38. Which of the following is not a composition of blood?
A. Plasma
B. Veins
C. Platelets
D. Red blood cells
39. What type of energy is used for cooking?
A. Kinetic energy
B. Heat energy
C. Sound energy
D. Potential energy
40. Which type of worms can be prevented by avoiding walking with bare feet in water?
A. Round worms
B. Earth worms
C. Hook worms
D. Tape worms

SECTION B: (60 Marks)

AGRICULTURE

41. (a) List any two activities involved when preparing land for growing fruits.

(2 Marks)

- (b) Name the type of irrigation suitable for each of the following crops.

(i) Rice : _____ (1 Mark)

(ii) Fruit trees : _____ (1 Mark)

- (c) Give a reason why watering of seedlings before transplanting is important?

(1 Mark)

42. (a) Name one use of a sprayer on the farm

(1 Mark)

(b) State any two safety measures when using a sprayer

(2 Marks)

(c) Name any two animal husbandry practices

(2 Marks)

43. (a) State two characteristics of land that affect agricultural production.

(2 Marks)

(b) Explain how labour affects agricultural production

(2 Marks)

44. (a) List any two products that can be made from milk

(2 Marks)

(b) Write down any two characteristics of cattle suitable for milk production

(2 Marks)

45. (a) State any two ways of maintaining a fish pond

(2 Marks)

(b) Why is clay soil suitable for constructing a fish pond

(2 Marks)

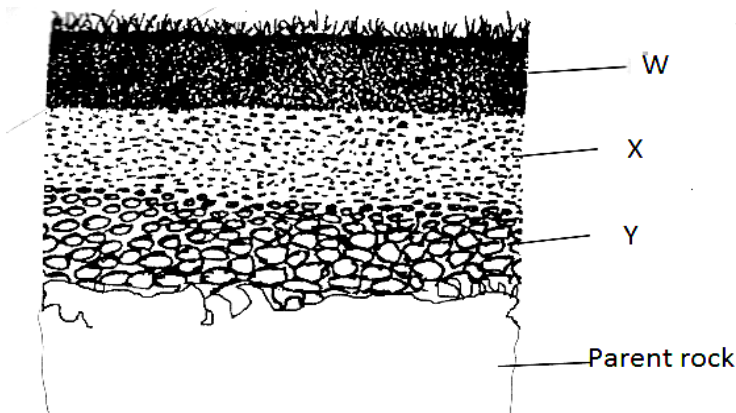
(c) Name any two diseases of chicken

(2 Marks)

(d) State any one sign of the diseases named in (c)

(2 Marks)

Figure 4 shows the soil profile. Use it to answer the questions that follow.



46. (a) Name the soil layers labelled W, X and Y

W _____

X _____

Y _____ (3 Marks)

(b) Why is the colour of the layer labelled W usually black?

_____ (1 Mark)

(c) State the causes of soil erosion

_____ (2 Marks)

SCIENCE AND TECHNOLOGY

47. (a) List any two agents of seed dispersal

_____ (2 Marks)

(b) Give a reason why seed dispersal is important

_____ (1 Mark)

48. (a) Name any two groups of vertebrate animals

_____ (2 Marks)

(b) Classify the following animals into Omnivores and Carnivores: Chicken, Snake, Pig and Hawk.

Omnivores	Carnivores

(4 Marks)

49. (a) Name any two examples of refuse in the home.

_____ (2 Marks)

(b) Give a reason why refuse disposal is important in the home.

_____ (1 Mark)

(c) How would each of the following materials be set into vibration?

(i) drum _____ (1 Mark)

(ii) whistle _____ (1 Mark)

50. (a) Give any two meals in a day.

_____ (2 Marks)

(b) Name any two factors that should be considered when planning meals

_____ (2 Marks)

(c) List any two foods suitable for old people

_____ (2 Marks)

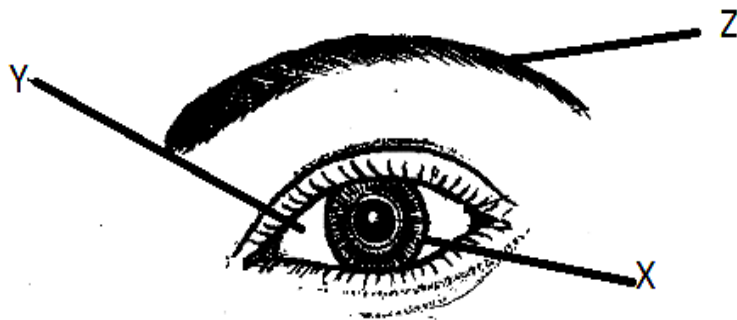
51. (a) State any two disadvantages of improvised classroom technologies

_____ (2 Marks)

(b) State two examples of hinge joints

_____ (2 Marks)

Figure 5 shows a diagram of the external parts of a human eye. Use it to answer questions that follow.



52. (a) Name the parts labelled X, Y and Z

X _____ (1 Mark)

Y _____ (1 Mark)

Z _____ (1 Mark)

EXAMINATION NO: _____

(b) What is the function of the part labelled Y

(1 Mark)

(c) State any two ways of caring for the eye

(2 Marks)

END OF QUESTION PAPER