



# CHISU ZONAL EXAMINATION BOARD

2021 PRIMARY SCHOOL LEAVING CERTIFICATE PRE-MOCK EXAMINATION

## PRIMARY SCIENCE

(100 marks)

DATE: 9<sup>TH</sup> JULY, 2021

Subject Number: P  
Time Allowed: 1 h 30 mins  
1:00 – 2:30 pm

Name of Candidate: \_\_\_\_\_  
(Surname First)

Name of School: \_\_\_\_\_

### Instructions

1. This paper contains 7 printed pages. Please check.
2. Write your Examination Number on each page of This paper.
3. This paper has **two** sections: **A** and **B**.
4. Follow instructions for each section carefully.
5. In the table provided on this page, **tick** against the question number you have answered.
6. **IMPORTANT**
  - Make sure you have written your **name, school name and examination number** on the question paper in the spaces provided.
  - Please hand in your filled in question paper to the invigilator at the end of the examination.

Question Number	Tick 21 – 35 if answered	Do not write in these columns	
1 - 40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			

**SECTION A (40 MARKS)**

**AGRICULTURE (20 MARKS)**

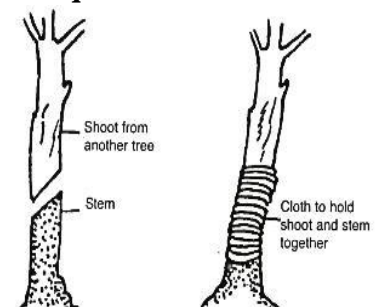
1. Which of the following is a sub-branch of agriculture under animal production
  - A. Agronomy
  - B. Apiculture
  - C. Olericulture
  - D. Silviculture
2. The principles of “substitution of inputs” helps to solve the problem of
  - A. How to produce
  - B. What to produce
  - C. Where to sell
  - D. When to sell
3. Which of the following factors of production refers to work done by people?
  - A. Capital
  - B. Land
  - C. Labour
  - D. Management
4. Which of the following activities can reduce pests and diseases in a tree nursery
  - A. Watering
  - B. Mulching
  - C. Supplying
  - D. Weeding
5. Which of the following types of fish services in salty water?
  - A. Mphende
  - B. Chambo
  - C. Mlamba
  - D. Chilunguni
6. Which of the following crops is a legume?
  - A. Maize
  - B. Beans
  - C. Rice
  - D. Sorghum

**Figure 1 is a diagram of a learner harvesting maize. Use it to answer questions 7 and 8**



7. Identify the method of harvesting maize
  - A. Plucking
  - B. Cutting
  - C. Stocking
  - D. Digging
8. Why is this method recommended to farmers
  - A. To allow the cobs to dry quickly
  - B. To allow farmers to kill more mice
  - C. To protect the maize from thieves
  - D. To protect the maize from fire
9. Which of the following factors is necessary for selecting good seeds for planting
  - A. Colour
  - B. Large size
  - C. Shape
  - D. Excellent
10. 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
11. 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
12. Why should a cage for a book 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 2 is a diagram showing a method of fruit propagation. Use it to answer questions 13 and 14**



13. Identify the method of fruit propagation

- A. Grafting
  - B. Budding
  - C. Suckers
  - D. Cutting
14. Which of the following fruits can be propagated by the method?
- A. Bananas
  - B. Pineapples
  - C. Granadillas
  - D. Avocado pears
15. Why is it important to water vegetables in field beds
- A. To reduce weed growth
  - B. To dissolve soil nutrients
  - C. To reduce spread of disease
  - D. To control soil pests
16. Which of the following is a way of managing the risks?
- A. Market research
  - B. Enterprise diversification
  - C. Contract production
  - D. Insurance
17. Which of the following is a characteristic of a good cock for breeding?
- A. Roomy body
  - B. Strong legs
  - C. Bright eyes
  - D. Mist vent
18. Which of the following types of soil is suitable for vegetables
- A. Loam soil
  - B. Sandy soil
  - C. Sandy loam soil
  - D. Clay soil
19. Which type of feed is given to a day old broiler
- A. Layers mash
  - B. Growers mash
  - C. Finisher mash
  - D. Starter mash
20. What type of house is recommended for chickens kept under free range system?
- A. Deep litter
  - B. Sem intensive
  - C. Battery cage
  - D. Traditional

**SCIENCE AND TECHNOLOGY (20 MARKS)**

EXAMINATION NO.: \_\_\_\_\_

21. Which of the following crops has an erect stem?
- A. Pumpkin
  - B. Pawpaw
  - C. Sweetpotato
  - D. Banana
22. Which of the following is example of a vegetable stain?
- A. Tea
  - B. Egg
  - C. Milk
  - D. Paint
23. What type of force is produced as a result of rubbing two objects?
- A. Gravitational force
  - B. Magnetic force
  - C. Frictional force
  - D. Elastic force

Figure 3 is a diagram showing changes of state matter. Use it to answer questions 24 and 25

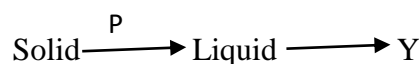


Figure 3

24. What process is represented by the letter P?
- A. Melting
  - B. Freezing
  - C. Condensation
  - D. Evaporation
25. How could the change of state of matter labelled Y be useful to human beings?
- A. Drying clothes
  - B. Brewing beer
  - C. Forming rain
  - D. Preserving food
26. Scurvy can be prevented by eating food rich in Vitamin c
- A. Vitamin A
  - B. Iodine
  - C. Iron
27. Which of the following technologies is used for sending and receiving messages
- A. Whistle
  - B. Decoder
  - C. Cellphone
  - D. Drum

- 28. Which of the following characteristics shows that a bat is a mammal
  - A. Scaly skin
  - B. Laying eggs
  - C. Presence of feathers
  - D. Bearing live young ones
- 29. Which of the following accidents can be prevented by taking liquids slowly?
  - A. Scald
  - B. Sprain
  - C. Choking
  - D. Poisoning
- 30. The function of the cerebrum is to control
  - A. Speech
  - B. Balance
  - C. Digestion
  - D. Breathing
- 31. What name is given to people who are recovering from illness?
  - A. Patients
  - B. Convalescents
  - C. Invalids
  - D. Vegetarians
- 32. The substance that dissolves in another substance is called.
  - A. Solvent
  - B. Solute
  - C. Solution
  - D. Suspension
- 33. Which of the following parts of an electric circuits control the flow of electricity
  - A. Cell
  - B. Bulb
  - C. Switch
  - D. Fuse
- 34. What is the function of red blood cells in the body?
  - A. Clotting blood

- B. Dissolving food
- C. Transporting oxygen
- D. Fighting germs
- 35. The cooking of food in hot oil is called
  - A. Frying
  - B. Stewing
  - C. Boiling
  - D. Baking
- 36. Which of the following conditions is a sign of Kwashiorkor?
  - A. Stunted growth
  - B. Wasting of muscles
  - C. Swollen body
  - D. Good appetite
- 37. Which of the following is a skin disease?
  - A. Diarrhea
  - B. Scabies
  - C. Tuberculosis
  - D. Malaria
- 38. Which of the following is a non-flowering plant?
  - A. Rice
  - B. Ferns
  - C. Tobacco
  - D. Peas
- 39. Which of the following animal is a vertebrate?
  - A. Grasshopper
  - B. Protozoa
  - C. Molluscs
  - D. Fish
- 40. Which of the following people is a manual worker
  - A. Manager
  - B. Secretary
  - C. Labourer
  - D. Lawyer

**SECTION B**

**AGRICULTURE (30 MARKS)**

- 41. (a) Define the term factor of production? ( 1 mark)  
\_\_\_\_\_
- (b) Give any **two** factors of production ( 2 marks)  
(i) \_\_\_\_\_  
(ii) \_\_\_\_\_
- (c) Give any **two** characteristics of land that affects agricultural production ( 2 marks)  
(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(d) Give any **one** activity under farm management ( 2 marks)

42. (a) Define the term water cycle? ( 1 mark)

(b) State any **three** processes and stage in water circle? (3 marks)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

(c) Define the following terms

(i) supply ( 1 mark)

(ii) Demand ( 1 mark)

(d) What happens to price when demand is higher than supply ( 1 mark)

43. (a) what is fish farming ( 1 mark)

(b) Give any **two** reasons why fish farming is important ( 2 marks)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) Mention any **two** predators of fish ( 2 marks)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(d) Describe any **two** ways of controlling predators in a fish pond? ( 2 marks)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

**Figure 1** shows method of fruit propagation, use it to answer, question **44**



44. (a) Name the Parasite? ( 1 mark)

(b) State any two ways in which the parasite cause damage to goats? ( 2 marks)

(c) List any two ways of controlling the Parasite? ( 2 marks)

45. (a) Define the term agroforestry? ( 1 mark)

(b) Mention any **two** cultural practices followed when establishing an agroforestry plot ( 2 marks)

- (i) \_\_\_\_\_  
 (ii) \_\_\_\_\_

(c) Describe any **two** factors to consider when designing an agro-forestry plot ( 2 marks)

- (i) \_\_\_\_\_  
 (ii) \_\_\_\_\_

**SCIENCE AND TECHNOLOGY (30 MARKS)**

46.(a) Give one function of tendons in the human body ( 1 mark)

(b) List **two** examples of joints that allow rotational movements ( 2 marks)

- (i) \_\_\_\_\_  
 (ii) \_\_\_\_\_

47. (a) Give any one function of the following input devices of a computer

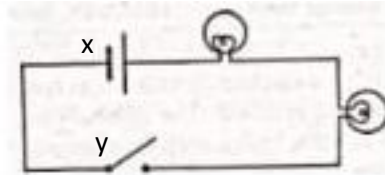
(i) Keyboard ( 1 mark)

(ii) Mouse ( 1 mark)

(b) State any **two** disadvantages of information technology ( 2 marks)

- (i) \_\_\_\_\_  
 (ii) \_\_\_\_\_

48. Figure..... is a diagram of an electric circuit



(a) What type of circuit is shown in the diagram ( 1 mark)

(b) What will happen to the bulbs when part Y is closed? ( 1 mark)

(c) Give a reason for your answer in 48b? ( 1 mark)

(d) What is the function of the part labelled x ( 1 mark)

49. (a) Give any **two** mixtures that can be separated by decanting method? ( 2 marks)

- (i) \_\_\_\_\_  
 (ii) \_\_\_\_\_

(b) How can you separate iron particles from sand ( 1 mark)

50. (a) Identify any **two** problems of the human eye? ( 2 marks)

- (i) \_\_\_\_\_  
 (ii) \_\_\_\_\_

(b) Mention any **two** properties of liquids (2 marks)

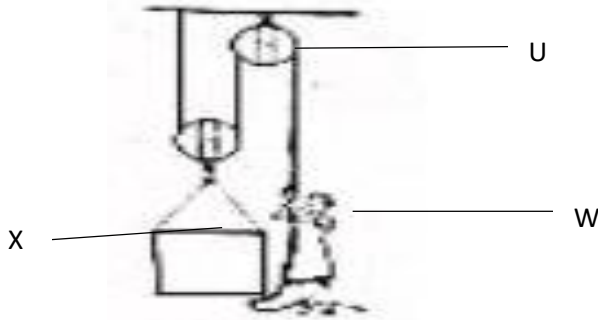
(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) What is the difference between a “sign “and a “symptom” in disease? (2 marks)

\_\_\_\_\_

51. (a) The figure Shows a machine for lighting objects. Use it to answer question 51.



(a) Which letter represent effort? (1 mark)

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

(b) Where will the load be? (1 mark)

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

(c) Name the type of machine shown above (1 mark)

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

52. (a) Explain the meaning of the term invertebrates (2 marks)

\_\_\_\_\_

\_\_\_\_\_

(b) Give **four** groups of invertebrates (4 marks)

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(iii) \_\_\_\_\_

(iv) \_\_\_\_\_

(c) Give the meaning of the terms

(i) dye (1 mark)

\_\_\_\_\_

(ii) Bleeding (1 mark)

\_\_\_\_\_

\_\_\_\_\_

**END OF QUESTION PAPER**

## MARKING KEY FOR PRIMARY SCIENCE

1. B	15. B	29. C
2. A	16. D	30. A
3. C	17. B	31. B
4. D	18. C	32. B
5. D	19. D	33. D
6. B	20. D	34. C
7. C	21. B	35. A
8. A	22. A	36. C
9. B	23. C	37. B
10. C	24. A	38. B
11. A	25. A	39. A
12. A	26. A	40. C
13. A	27. C	
14. B	28. D	

## AGRICULTURE

41. (a) process to produce crops and livestock  
 (b) (i) land/ labour  
 (ii) management/ capital  
 (c)(i) Size  
 Slope / fertility  
 (d) Land preparation
42. (a) Water cycle is continuous movement of water on above and low surface.  
 (b) Evaporation , filtration, condensation  
 (c) (i) Supply amount of goods required by the consumer  
 (ii) goods needed by customers  
 (d) The price increases.
43. (a) Practice of keeping fish in a pond  
 (b) Source of food/ source of money  
 (c) The hrey heron/ lizard/ the king fisher/ the otter
44. (a) bud  
 (b) budding  
 (c) Oranges/ Mangoes/ apples/ peaches
45. (a) practice of growing arable crops together with trees on the same piece of land.  
 (b) Digging planting holes  
 - planting  
 (c) Type of trees and crops to be grown together  
 - spacing  
 - size of the plot