



CHISU ZONAL EXAMINATION BOARD

2021 PRIMARY SCHOOL LEAVING CERTIFICATE PRE-MOCK EXAMINATION

PRIMARY SCIENCE

(100 marks)

DATE: 9TH 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)**

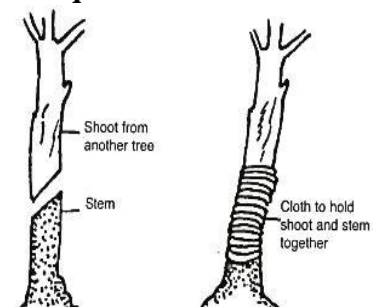
- Which of the following is a sub-branch of agriculture under animal production
 - Agronomy
 - Apiculture
 - Olericulture
 - Silviculture
- The principles of “substitution of inputs” helps to solve the problem of
 - How to produce
 - What to produce
 - Where to sell
 - When to sell
- Which of the following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

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



- Identify the method of harvesting maize
 - Plucking
 - Cutting
 - Stocking
 - Digging
- Why is this method recommended to farmers
 - To allow the cobs to dry quickly
 - To allow farmers to kill more mice
 - To protect the maize from thieves
 - To protect the maize from fire
- Which of the following factors is necessary for selecting good seeds for planting
 - Colour
 - Large size
 - Shape
 - Excellent
- Which of the following is a sign of Anthrax in goats
 - Quick breathing
 - Blisters on feet
 - Swelling of stomach
 - Saliva coming out
- Why is it important to advertise fish for sell before harvesting
 - To know the fish customers
 - To transport the fish easily
 - To determine price of the fish
 - To package the fish
- Why should a cage for a book be slightly larger than for a doe?
 - To have enough ventilation
 - To control parasites
 - To keep more rabbits
 - To ease mating

Figure 2 is a diagram showing a method of fruit propagation. Use it to answer questions 13 and 14



- 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

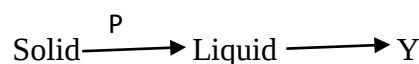


Figure 3

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

EXAMINATION NO.: _____

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

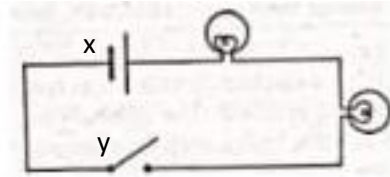
(ii) Mouse (1 mark)

(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) _____

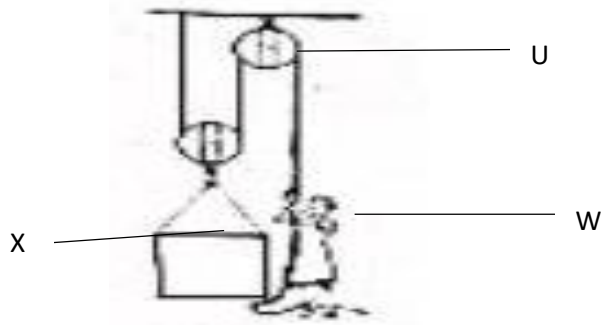
(b) Mention any **two** properties of liquids (2 marks)

(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)

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

(c) Name the type of machine shown above (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