



CHIKOWI ZONE

2023 Primary School Leaving Certificate Mock Examination

PRIMARY SCIENCE

(100 MARKS)

DATE: _____

Subject Number: P165

Time allowed: 2hours

8.00 – 10.00 am

Name of Candidate: _____

(Surname First)

Name of School: _____

1. This paper contains 8 pages.
Please check.

2. Write your name and name of your school in the space provided and your examination number on top of each page of question paper.

3. This paper consists of two sections **A** and **B** you are expected to answer all questions.

IMPORTANT

4. In the table provided on this page, tick against the question number you have answered.

5. Hand in your worked paper to the invigilator when time is called to stop.

Question number	Tick if answered	Do not write in these columns	
1- 40			
41			
42			
43			
44			
45			
46			
47			
48			
49			
50			
51			
52			
53			
54			

Printed by: Word – Tech Computer Centre

Cell: 0881363795

©all rights reserved



SECTION A (40 marks)

Encircle the letter representing the correct answer

AGRICULTURE

1. Which of the following characteristics of land affects agricultural production?
 - A size, land and slope
 - B slope, capital and management
 - C size, land and labour
 - D capital, size and labour
2. In what way is sunlight as a major element of agriculture environment important in agriculture?
 - A pollinate produce
 - B dries farm produce
 - C cools produce
 - D removes light useless matter
3. Which of the following breeds of goats are suitable for Mohair?
 - A Gaddi and Taggernburg
 - B Kamori and Gaddi
 - C Kamori and Malawian goat
 - D Boar and Somari
4. The following are examples of physical farm records except _____
 - A record of items on the farm
 - B labour record
 - C meat production record
 - D milk production record
5. Which principle is applied to solve the problem of what to produce?
 - A substitute of inputs
 - B demand and supply
 - C substitution and supply
 - D demand and comparative
6. The following are indigenous farm machinery and technologies except ____
 - A planting frame
 - B ash
 - C winnower
 - D inorganic fertilizer
7. Which of the following is the end product of hoofs and horns?
 - A horns
 - B butter
 - C belts
 - D cheese
8. What are crop husbandry practices?
 - A anything that surrounds crops and animals
 - B the growing of crops and rearing animals
 - C the production of ornamental crops
 - D these are activities carried out when growing crops.
9. The removal of excess plants on a flower bed is called _____
 - A pruning
 - B thinning
 - C trimming
 - D tending
10. Which plant can be propagated using suckers?
 - A pineapples
 - B apples
 - C granadilla
 - D guavas
11. Which one is a type of agroforestry forestry?
 - A folder bank
 - B improved fallows
 - C live fence
 - D forest farming

Figure 1 is a diagram showing an indigenous farm machinery. Use it to answer question 12 and 13.



12. Identify the indigenous technology.
 - A gourd
 - B quern
 - C leaf bag
 - D soot
13. The indigenous technology is used for
 - A storing fresh vegetables
 - B storing seeds
 - C storing pesticides
 - D storing meat
14. Which one is an important of improving local breeds?
 - A produce more than local breeds
 - B lives longer than local breeds

NAME OF STUDENT: _____

- C are able to feed on commercial feeds
 D withstand high temperatures
15. The actual price of a commodity is determined by when _____
 A demand is greater than demand
 B supply and demand are equal
 C supply is greater than demand
 D demand is lower than supply

16. Which of the following diseases is controlled by early planting?
 A bacterial spot B rusts
 C leaf spot D rosette

Figure below shows a financial record of poultry production. Use it to answer the question that follows

INCOME			EXPENDITURE		
Date	Details	Amount	Date	Details	Amount
5/12/21	Sold 20 eggs at K100 each	K2 000	7/12/21	Bought drugs at K3 000	K3 000
6/12/21	Sold 5 chickens at K4000 each	K20 000	8/12/21	Bought 2 bags of feeds at K5 000	K10 000

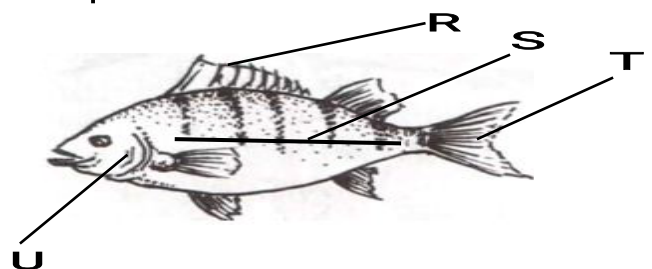
17. What were the total sales?
 A K18, 000.00
 B K12, 000.00
 C K22, 000.00
 D K40, 000.00
18. Why should some seeds be put in hot water first before sowing?
 A to kill pests
 B to prevent diseases
 C to soften the seed coats for easy germination
 D to prevent the pests from entering the seeds
19. Which of the following are the main types of animal husbandry practices?
 i Housing ii feeding
 iii kraal iv breeding
- A i, ii and iii B ii, iii and iv
 C i, ii and iv D i, iii and iv

20. Which of the following is a characteristic of a natural forest?
 A trees grow uniformly
 B trees are grown for a purpose
 C usually different types of trees grow
 D trees are cared for

SCIENCE AND TECHNOLOGY

21. Which of the following methods could be used to separate a mixture of sand and small pieces of iron?
 A filtering B distilling
 C using a magnetic D evaporation
22. What is an echo?
 A reflected sound
 B vibrating sound
 C loud sound
 D high pitched sound
23. Why is the inner surface of a vacuum flask painted silver?
 A to beautify the flask
 B to emit more heat
 C to reduce loss of heat through radiation
 D to reduce loss of heat through conduction
24. Night blindness is caused by lack of ____
 A iron B iodine
 C vitamin B D vitamin A
25. What do insects benefit from flowers?
 A nector B scent
 C colours D honey

Figure below is a diagram of a fish. Use it to answer question 26 and 27.

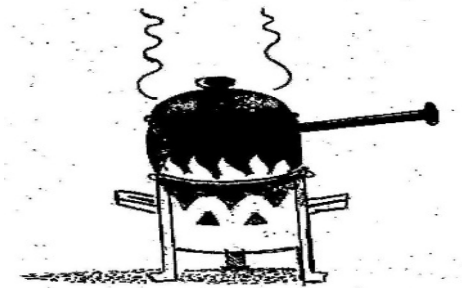


26. What name is given to the part marked R.
 A anal fin B pectoral fin
 C dorsal fin D pelvic fin
27. Which part is used for detecting sound?
 A R B U
 C T D S

28. Drug and substance abuse can cause
 A brain damage B suffocation
 C smothering D choking

29. Which forces causes a ball that is thrown upward to return to the ground?
 A electrostatic force
 B frictional force
 C electric force
 D gravitational force

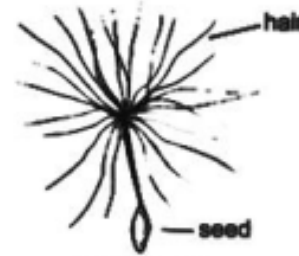
Figure below show method of cooking. Use it to answer question 30



30. Identify the cooking method.
 A boiling B roosting
 C direct steaming D baking
31. Which of the following joints moves in one direction?
 A immovable B hinge
 C gliding D ball and sockets
32. Which of the following electric symbols controls the flow of electricity?
 A cell B switch
 C fuse D bulb
33. Which part of a seed allows water and air to enter a seed?
 A micropyle B hillum
 C scar D testa

34. Which one is a mineral fibre?
 A asbestos B linen
 C silk D leather

Figure below shows a seed. Use it to answer question 35 and 36.



35. How is the seed dispersed?
 A water B animal
 C wind D explosive mechanism
36. Name the seed
 A African daisy B cotton seed
 C mchewere D nakabwazi
37. Why do people become vegetarians?
 A custom B taste
 C cheap D nutritious
38. The interpretation of a message by the receiver is called _____
 A coding B a decoder
 C decoding D recording
39. Which one of the following is a sign of kwashiorkor?
 A good appetite B poor appetite
 C looking alert D wrinkled skin
40. A disease that affects the breathing system is _____
 A typhod B measles
 C pneumonia D asthma

SECTION B (60 MARKS)

AGRICULTURE

Answer all questions in the space provided.

41. (a) Give one way in which farmers can solve each of the following farm business problems
- i. How to produce?
 _____(2 marks)
- ii. When to sell?
 _____(2 marks)

Figure below shows a method of propagating a fruit. Use it to answer question.



(b) Identify the method of propagating fruits _____(1 mark)

(c) Which fruits can be propagated using this method? _____(1 mark)

(d) How is growing fruits a source of employment? _____(1 mark)

(e) Mention any two effects of growing perishable products away from the market.

_____ (2 marks)

42. (a) Why is agriculture important to a family? _____(1 mark)

(b) What is the main aim of agriculture as a business? _____(1 mark)

43. (a) Mention any two uses of a rake.

_____ (2 marks)

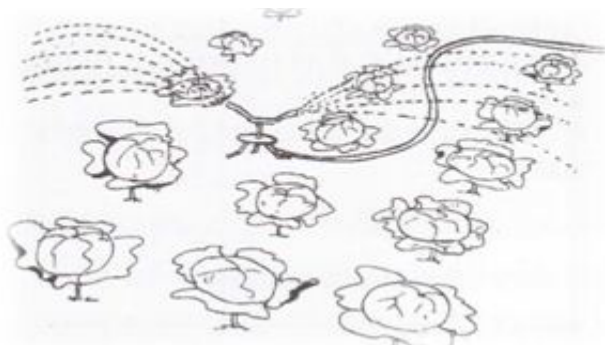
(b) Name the use of each of the following parts
i. Barrel assembly _____(1 mark)

ii. Pulley _____(1 mark)

44. What is the different between concentrates and roughages?

_____ (2 marks)

Figure below shows a method of irrigation



45. (a) Explain how the method of irrigation shown supplies water on to the field

_____ (3 marks)

(b) Irrigating crops improves food security because _____ (1 mark)

(c) Name the places in Malawi where irrigation should be encouraged _____ (2 marks)

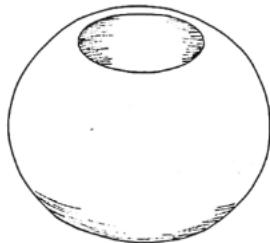
46. (a) State how the use of herbicides improves agricultural production _____ (1 mark)

(b) Define fallowing _____ (1 mark)

(c) Give any two types of composting toilets? _____ (2 marks)

(d) Mention any one risk in a farm business. _____ (1 mark)

Figure below shows an indigenous technology. Use it to answer questions that follow



47. (a) Name the indigenous technology above _____ (1 mark)

(b) Give two use of the indigenous technology above? _____ (2 marks)

SCIENCE AND TECHNOLOGY (35 MARKS)

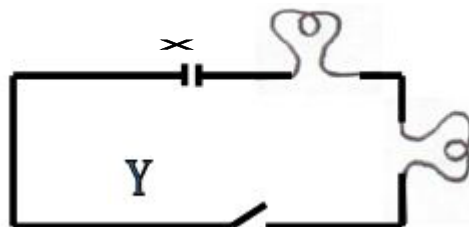
48. (a) State any one characteristics of insect pollinated flowers _____ (1 mark)

(b) Classify the following fruits as being dispersed by wind or animals:
African daisy, mango, dandelion and orange

i. Dispersed by wind _____ (2 marks)

ii. Dispersed by animals _____ (2 marks)

Figure below is a diagram of an electric circuit



49. (a) What type of a circuit is shown in the figure above?
_____ (1 mark)
- (b) What will happen to the bulbs when part Y is closed?
_____ (1 mark)
- (c) Give a reason for your answer in 49(b) above
_____ (1 mark)
- (d) What is the function of the part labeled X?

_____ (2 marks)

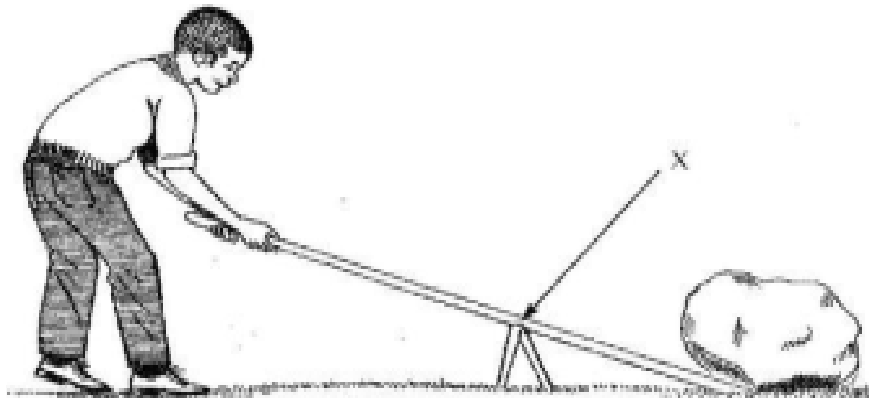
50. (a) Define a solute
_____ (1 mark)
- (b) What method would you use to separate water and paraffin?
_____ (1 mark)
- (c) Why are mixtures useful in our everyday life?
_____ (1 mark)
- (d) Give two factors that affects the rate of solubility of substances in water?

_____ (2 marks)

51. (a) What is a stain?
_____ (1 mark)
- (b) State one way of removing a blood stain
_____ (1 mark)
- (c) Mention two uses of starch in laundry

_____ (2 marks)
- (d) Give any one vegetable stain?
_____ (1 mark)

Figure below shows a simple machine used to do work. Use it to answer question 52.



52. (a) Identify part labeled X.
_____ (1 mark)

(b) State the use of a machine above
_____ (1 mark)

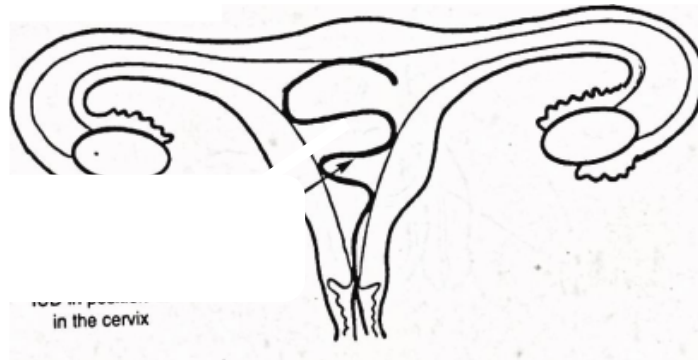
(c) Give one advantage of using a pulley?
_____ (1 mark)

53. (a) Explain how farmers can solve each of the following problems of marketing
i. Lack of direct access to buyers
_____ (1 mark)

ii. High transport costs
_____ (1 mark)

(b) State one way of improving the nutritional value of food
_____ (1 mark)

Figure below shows a family planning method commonly used. Use it to answer question 54.



54. (a) Identify the family _____ (1 mark)

(b) What risk does the method cause to the user?
_____ (1 mark)

(c) Explain how the IUD placed in the uterus prevents pregnancy
_____ (1 mark)

(d) Give one importance of practicing family planning method?
_____ (1 mark)

END OF QUESTION PAPER