



Examination No.: \_\_\_\_\_

# LIKUNI ZONAL EXAMINATIONS BOARD

2019/2020 PRIMARY SCHOOL LEAVING CERTIFICATE MOCK EXAMINATION

## SCIENCE AND TECHNOLOGY (100 MARKS)

Name of candidate : \_\_\_\_\_  
(Surname first)  
Name of School : \_\_\_\_\_

### Instructions

1. This paper contains **7 pages**. Please check.
2. This paper has two section **A** and **B**. section **A** consists of **40 multiple choice** questions carrying **1 mark** each. Encircle a letter of your choice representing the right answer to each question. **Section B** has **12 structures** questions. Write your answers to this section on the question paper in the spaces provided. The maximum number of marks for each answer is indicated against the questions.
3. Answer **all** questions
4. In the table provided on this page, **tick** against the question number you have answered
5. **IMPORTANT**
  - Please make sure you have written your **name**, **school name**, and **examination number** on the question paper.
  - Please hand in your filled-in question paper to the invigilator at the end of the examination.

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

**SECTION A (40MARKS) AGRICULTURE**

1. Which of the following is a sub branch of agriculture under animal production?
  - a) Horticulture
  - b) Apiculture
  - c) Floriculture
  - d) Silviculture
2. Which of the following is not a common weed in a flower garden?
  - a) Witch weed
  - b) Black jack
  - c) Msonthi
  - d) Denje
3. Quarantine means
  - a) Restriction movement of risk animals
  - b) Feeding animals in a house
  - c) Keeping animals which are resistant to diseases
  - d) Killing disease causing organisms
4. Which of the following is not a disease of maize?
  - a) Head smut
  - b) Rosette
  - c) Maize streak
  - d) Leaf bright
5. The following are indigenous trees except
  - a) M'bawa
  - b) Mkundi
  - c) Mthethe
  - d) Blue gum
6. What type of irrigation is common in rice field?
  - a) Fallow
  - b) Sprinkler
  - c) Basin
  - d) Flooding
7. The major factors of production are
  - a) Land, capital, labour and management
  - b) Size, characteristics, cash and labour
  - c) Capital, management, slope and materials
  - d) Fertility, production, livestock and crops
8. The process of water cycle that takes place between precipitation and percolation.
  - a) Evaporation
  - b) Condensation
  - c) Infiltration
  - d) Transportation
9. Which crop can be grown in loose soil structures?
  - a) Rice
  - b) Cassava
  - c) Maize
  - d) Okra
10. It is important to add green vegetables to chicken feeds in order to provide
  - a) Vitamins
  - b) Proteins
  - c) Fats
  - d) Carbohydrates
11. To which class of vegetables do beans belong
  - a) Legume
  - b) Fruit
  - c) Flower
  - d) Stem
12. The accumulation of water silt in water bodies is called
  - a) Contamination
  - b) Siltation
  - c) Filtration
  - d) Restricting
13. Mr Alexander had K5000. He bought a shovel at K3745. How much money was left?
  - a) K1525
  - b) 3575
  - c) K8745
  - d) K1255
14. The part of a plough that holds all parts of it is called
  - a) Hitch
  - b) Bean
  - c) Hake
  - d) Handle

15. Which of the following is a characteristic of a good cock for breeding?
- Strong body
  - Wide mist vet
  - Roomy body
  - Blunt beak
16. Why should a farmer add manure to a fish pond?
- To feed the fish
  - To reduce temperature of water
  - To kill fish predators
  - To improve the growth of planktons
17. Salivation is a sign of a disease in cattle called
- Newcastle
  - Foot and mouth
  - East cost fever
  - Yellow fever
18. Which of the following is an activity in marketing?
- Supplying
  - Planting
  - Processing
  - Harvesting

Figure 1 shows financial record of poultry production. Use it to answer questions 19 and 20

| Date     | Details                     | Amount  | Date     | Details                             | Amount    |
|----------|-----------------------------|---------|----------|-------------------------------------|-----------|
| 05/05/12 | Sold 100 egg @ K20each      | 2000.00 | 07/05/12 | Bought 2 drinkers @ K500 each       | 1000      |
| 06/06/12 | Sold 10 chicken @ K700 each | 7000.00 | 08/05/12 | Bought 10bags of feed at K2000 each | 20,000.00 |

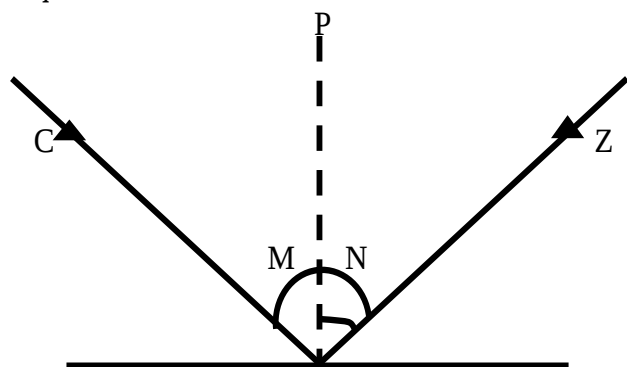
19. What were the total sales?
- K3000
  - K9000
  - K20000
  - K21000
20. The farmers loss was
- K3000
  - K30000
  - K21000
  - K12000

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21. Which of the following foods provide the body with energy?
- Meat
  - Pumpkin leaves
  - Honey
  - Beans
22. Which of the following problems of the human breathing system may be caused by covering ones face with a plastic bag?
- Choking
  - Tuberculosis
  - Asthma
  - Smootheirng
23. Which of the following is an example of a vegetable stain?
- Egg
  - Paint
  - Milk
  - Tea
24. Why do invalids require little carbohydrates and in their diets?
- They use less energy
  - They have weak bodies
  - They are fat people
  - They don't need carbohydrates
25. Which of the following is the method of processing maize?
- Covering
  - Pounding
  - Salting
  - Chopping
26. Air sacs in the lungs are important because it is where
- The exchange of oxygen and carbon dioxide takes place
  - Urea is excretated from the body
  - Carbon dioxide is mixed up with oxygen
  - The exchange of oxygen and urea takes place
27. What name is given to the process when gases change into liquids?
- Melting
  - Evaporation
  - Condensation
  - Freezing

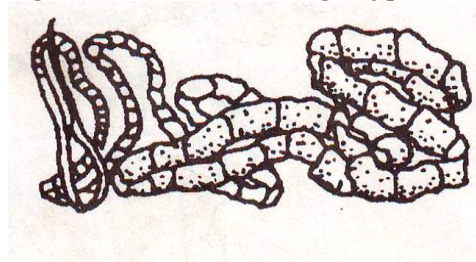
28. A dislocated joint is a joint where
- There is clicking of bones
  - There are torn ligaments
  - Bones are broken
  - Bones have come out of place
29. Choose the main parts of an embryo of a bean seed?
- Plumule and testa
  - Plumule and radical
  - Testa and cotyledon
  - Radical and cotyledon
30. \_\_\_\_\_ is an example of non flowering plants
- Fern plant
  - Bean plant
  - Maize plant
  - Hibiscus plant
31. The advantage of using information and communication technologies in our everyday life is that is
- Increases demand for unskilled labour
  - Increases demand for skilled labour
  - Decreases demand for unskilled labour
  - Decreases demand for skilled labour

Figure below is a diagram showing a ray of light reflected by a plane mirror. Use it to answer questions 32 and 33



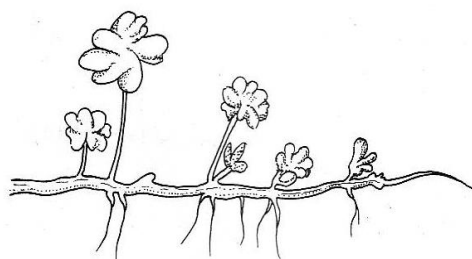
32. What is the name of ray marked C
- Refracted ray
  - Incident ray
  - Reflected ray
  - Emergent ray
33. Find the angle marked N, if angle marked m is 50 degrees
- 90
  - 80
  - 50
  - 40

Figure below is a showing a type of worms.



34. Identify the type of worm.
- Tape worm
  - Hook worm
  - Round worm
  - Live worm
35. Animals that eat other animals only are called \_\_\_\_\_
- Herbivores
  - Omnivores
  - Carnivores
  - Skeletons
36. Why should coloured clothes be dried under the shade?
- To make it bright
  - To make it soft
  - To avoid bleaching
  - To make beauty

Figure below is showing a diagram of a stem.



37. Identify the type of a stem.
- Creeping
  - Erect
  - Climbing
  - Underground
38. Which of the following can conduct electricity?
- Milk powder
  - Sugar solution
  - Salt solution
  - Paraffin

39. Which of the following sense organs is use for touching?

- a) Nose                      d) Nose  
b) Tongue  
c) Skin

- B. 1 and 4  
C. 2 and 3  
D. 2 and 4

40. Which of the following statements are true which about insect pollinated flowers?

- a) Flowers are small  
b) Athens are held firmly  
c) Have bright coloured petals  
d) Produce large amount of pollen  
A. 1 and 2

### **SECTION B (60MARKS) AGRICULTURE**

41. a. Write any three parts of a sprayer.

- i. \_\_\_\_\_ ii. \_\_\_\_\_ (3marks)  
iii. \_\_\_\_\_

b. State the function of a sprayer to an egg plant farmer.

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

42. a. What are farm records?

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

b. Give two importance of farm records.

- i. \_\_\_\_\_ (2marks)  
ii. \_\_\_\_\_

c. How is mulching important ( give two ways)

\_\_\_\_\_  
\_\_\_\_\_ (2marks)

43. a. Mention two factors to consider when choosing a site for fish pond.

- i. \_\_\_\_\_ (2marks)  
ii. \_\_\_\_\_

b. Define water pollution

\_\_\_\_\_  
\_\_\_\_\_ (2marks)

c. How can water be polluted (give two ways?)

\_\_\_\_\_  
\_\_\_\_\_ (2marks)

44. a. What are two main types of farming?

\_\_\_\_\_  
\_\_\_\_\_

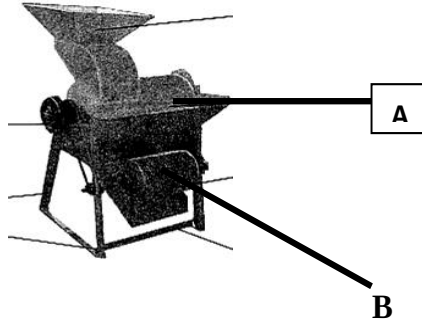
b. Apart from producing crops and animals mainly for sale give any other two characteristics of this type of farming.

\_\_\_\_\_  
\_\_\_\_\_ (2marks)

c. Explain the following system of chicken houses.

- i. Free range  
\_\_\_\_\_  
ii. Semi – intensive  
\_\_\_\_\_  
(2marks)

Figure 2 is farm implement, study it and answer questions 45.



45. a. Name the implement  
\_\_\_\_\_  
(1mark)  
b. State the function of the implement.  
\_\_\_\_\_  
(1mark)  
c. Name the parts labeled A and B  
A \_\_\_\_\_ B \_\_\_\_\_  
(2marks)
46. a. Give one importance of goat keeping.  
\_\_\_\_\_  
(1mark)  
b. State two types of goat houses.  
\_\_\_\_\_  
(1mark)  
c. Name two goat feeding habits.  
\_\_\_\_\_  
(2marks)
47. a. Give any two methods of cooking.  
\_\_\_\_\_  
\_\_\_\_\_  
(2marks)  
b. Write one importance of cooking food  
\_\_\_\_\_  
(1mark)
48. a. Mention two examples of mammals.  
\_\_\_\_\_  
\_\_\_\_\_  
(2marks)  
b. State any two characteristic of fish.  
\_\_\_\_\_  
\_\_\_\_\_  
(2marks)
49. a. Define the following terms  
i. convalescent  
\_\_\_\_\_  
(1mark)  
ii. vegetarians  
\_\_\_\_\_  
(1mark)

b. Give any two reasons why people may become vegetarians.

\_\_\_\_\_ (2marks)

50. a. List two types of pollination.

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

b. Write three agents of pollination.

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

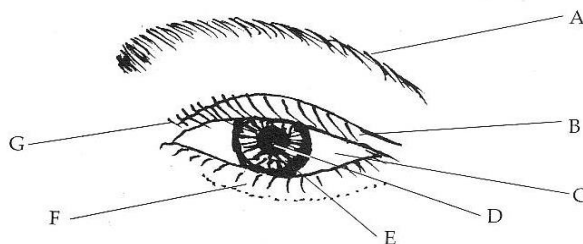
51. Copy the table below and fill in the types of energies and their uses

| Type or energy | Uses of energy |
|----------------|----------------|
| (i)            | (i)            |
| (ii)           | (ii)           |

b. What do you understand by the word energy?

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

52. Figure below of the external parts of a sense organ.



A(i). Name the sense organ.

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

(ii). Explain one way of caring the sense organ.

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

B(i). Name the part labelled A and B

\_\_\_\_\_ (2marks)

(ii). State one reason why the sense organ is important

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

53. a. Define the term “marketing”

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

b. What name is given to the technologies that are used to increase production and sales?

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

c. List any two technologies that can be used for advertising.

\_\_\_\_\_  
\_\_\_\_\_ (2marks)

**END OF QUESTION PAPER**

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