



# CHIKALA ZONE EXAMINATION BOARD

2022 PRE-MOCK EXAMINATION

## PRIMARY SCIENCE

(100 marks)

Friday, 25 February

Subject number: P163

Time allowed: 2 hours

8:00 – 10:00 am

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

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

### Intructions

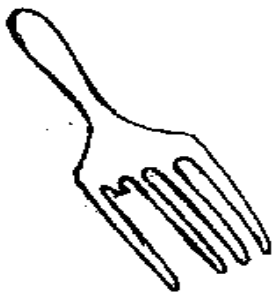
- This paper contains 9 printed pages. Please check
- This paper has **two** sections **A** and **B**. section **A** consists of **40** multiple choice questions carrying 1 mark each. Encircle a letter of your choice representing the right answer to each question. Section **B** has **12** structured 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 question
- Answer **all** questions.
- In the table provided on this page **tick** against the question number you have answered.
- IMPORTANT**
  - Please make sure that you have written your **name** and **examination number** on the question paper in the spaces provided
  - Please hand in your worked question paper to the invigilator when time is called to stop writing.

| Question number | Tick Qs 31- 40 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)****AGRIULTURE**

1. The keeping of bees is call called \_\_\_\_\_  
A. agronomy            C. olericulture  
B. apiculture            D. rabbitry
2. Which of the following is an aim of agriculture as a business.  
A. decreasing yield per unit area.  
B. decide on how much to produce  
C. increasing yield per unit area  
D. selling products at a profit or loss
3. Which of the following is an importance of feeding farm animals properly.  
A. protecting the animals from diseases  
B. it is easy to collect products.  
C. source of raw materials  
D. improving soil fertility

**Figure 1** is one of the common farm tools. Use it to answer question **4** and **5**.



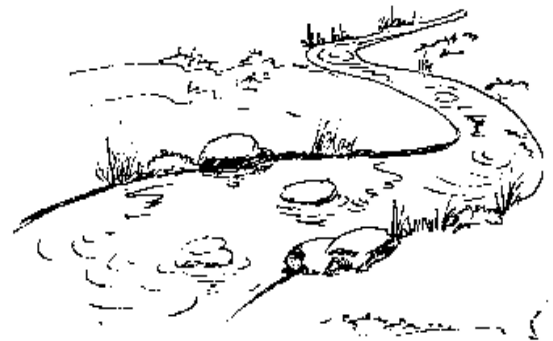
**Figure 1**

4. Name the farm tool.  
A. rake                      C. trowel  
B. sickle                    D. handfork
5. Which of the following is the best way of maintaining the farm toll?  
A. sharpening  
B. replacing broken spike  
C. oiling the blade  
D. replacing broken handle

6. \_\_\_\_\_ are written information that farmers keep on different activities carried out on the farm.  
A. agricultural activities  
B. farm records  
C. farm keeps  
D. animal and crops
7. Why pollination is important in agriculture?  
A. for plant reproduction  
B. for making plant food  
C. for seed germination  
D. for water droughts
8. The following are the composition of the soil except:  
A. organic matter      C. soil water  
B. soil air                D. soil particles

Study the **Figure 2** below. Use it to answer questions **9** and **10**.

Figure



**Figure 2**

9. Name the above illustration.  
A. river                      C. water  
B. lake                        D. dam
10. Identify the source of the stated illustration.  
A. land                        C. water  
B. mountain                D. forest

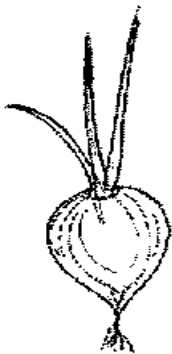
11. Which of the following is not a factor of production?

- A. land                      C. capital  
B. fertility                  D. labour

12. The percentage composition of sand, silt and clay in a soil is called.

- A. agriculture              C. soil structure  
B. soil texture              D. forestry

Study the **Figure 3** below. Use it to answer questions **13** and **14**.



**Figure 3**

13. Name the vegetable shown above.

- A. onion                      C. spider  
B. lettuce                    D. maize

14. To which class of vegetables does the vegetable named above belong to?

- A. leaf                        C. exotic  
B. fruits                     D. bulb

15. Describe one sign of coccidiosis in rabbits.

- A. small blisters on the skin  
B. death  
C. lack of appetite  
D. virus

16. The following are the **two** major nutrients except:

- A. Nitrogen and Phosphorous  
B. Zinc and Sulphur

- C. Potassium and Zinc  
D. Cesium and Zinc

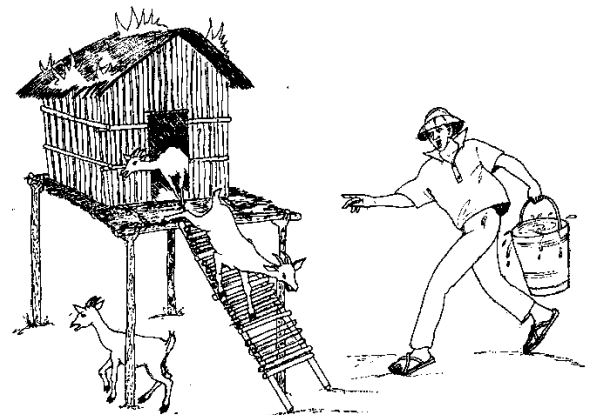
17. Which of the following is one of the ways of keeping water safe?

- A. boiling                    C. adding choline  
B. adding lime              D. adding mud

18. Which of the following is the way of improving soil fertility?

- A. making planting materials  
B. mixed cropping  
C. adding oil to soil  
D. cutting down trees carelessly

Study **figure 4** below and use it to answer **Questions 19** and **20**.



**Figure 4**

19. Identify the risk in the farm business above.

- A. weather change  
B. price change  
C. fire  
D. pest and diseases

20. Which of the following is the way of coping with the risk?

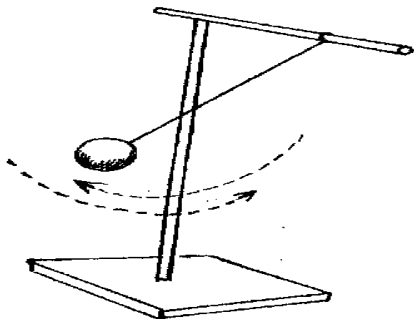
- A. doing business  
B. contract production  
C. taking insurance policy  
D. orderling

## SCIENCE AND TECHNOLOGY

21. What name is given to the process in which plants make their own food?
- evaporation
  - photosynthesis
  - distillation
  - condensation
22. Which of the following are the examples of immovable joints?
- ball and socket
  - hip joint
  - skull joint
  - hinge joint
23. Give two ways of classifying animals?
- keeping animals
  - raising animals
  - keeping rabbits
  - according to the type of food they eat

24. Which of the following is the vertebrate animal?
- |            |              |
|------------|--------------|
| A. spider  | C. millipede |
| B. leopard | D. snail     |

Study the **Figure 5** below and use it to answer **Question 25**.



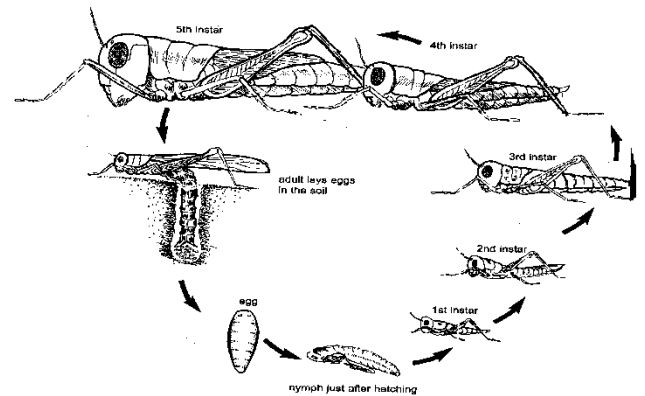
**Figure 5**

25. Name the diagram.
- |             |                  |
|-------------|------------------|
| A. pendulum | C. an axe        |
| B. a hoe    | D. a wheelbarrow |
26. Which of the following is the advantage of stewing method of cooking?

- fuel is saved
- serve the food and liquid together
- the food looks attractive and appetizing
- no loss of soluble nutrients

27. To which group of invertebrates does a frog belong?
- |            |               |
|------------|---------------|
| A. fish    | C. amphibians |
| B. animals | D. reptiles   |

Study the **Figure 6** below and answer question **28**.



**Figure 6**

28. What type of metamorphosis is shown above?
- |               |                |
|---------------|----------------|
| A. incomplete | C. grasshopper |
| B. complete   | D. insect      |

**Figure 7** is a picture showing deficiency disease. Use it to answer **Questions 29** and **30**.



**Figure 7**

29. Name the deficiency disease above.
- |            |            |
|------------|------------|
| A. scurvy  | C. rickets |
| B. anaemia | D. goitre  |

30. Which of the following is the cause of the deficiency disease above?  
 A. Lack of vitamin D  
 B. Lack of vitamin A  
 C. Lack of iodine  
 D. Lack of iron
31. The change of state of matter from liquid to solid is called:  
 A. evaporation      C. freezing  
 B. condensation      D. sublimation
32. Which of the following is an indirect source of light?  
 A. fire      C. reflector  
 B. bulb      D. sun
33. Which of the following fluid in the body transport sperm?  
 A. blood      C. semen  
 B. saliva      D. sweat
34. Which of the following is not a nutritional deficiency disease?  
 A. goiter      C. malaria  
 B. rickets      D. kwashiorkor
35. Identify the way of caring for the digestive system  
 A. resting after taking meals  
 B. taking hot foods  
 C. eating too fast  
 D. eating too much
36. Which components of the blood is responsible for transporting oxygen?  
 A. red blood cells      C. plasma  
 B. white blood cells      D. platelets
37. Name the process whereby blood oozes from the body.  
 A. bleeding      C. breathing  
 B. breeding      D. circulatory
38. The following are the reasons why some people become vegetarians.  
 A. religion      C. welfare  
 B. health      D. education
39. State two conditions for seed germination.  
 A. moisture and soil  
 B. air and moisture  
 C. soil and seeds  
 D. maize and beans
40. Which of the following contracts and becomes flat when breathing?  
 A. ribs      C. nostrils  
 B. diaphragm      D. trachea

### Section B (60 marks)

## AGRICULTURE

41. a. State any **two** sub-branches of agriculture.

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(2 marks)

- b. Mention any **two** farm business activities.

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(2 marks)

c. Give **two** reasons for keeping farm animals.

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(2 marks)

Figure 8 is an experiment of soil. Use it to answer questions that follow.

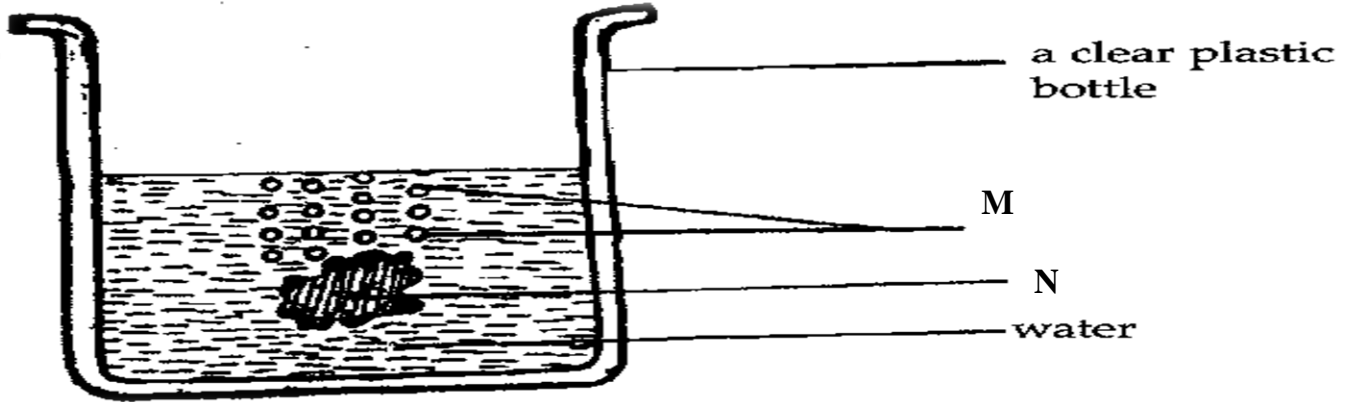


Figure 8

42. a. Identify the parts labelled M and N.

M \_\_\_\_\_  
N \_\_\_\_\_

(2 marks)

b. Explain the aim of the experiment.

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(2 marks)

c. List down the **two** importance of irrigation.

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(2 marks)

43. a. Define the term soil fertility.

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(1 mark)

b. What are the **two** characteristics of infertile soils?

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(2 marks)

44. a. Define marketing functions?

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(1 marks)

b. State any **one** marketing function.

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(1 mark)

45. a. Give **two** factors to consider when selecting site for growing flowers.

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(2 marks)

b. Mention **one** steps of land preparation in flower growing.

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(1 mark)

46. a. What is water cycle?

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(1 mark)

b. Give **two** processes in water cycle.

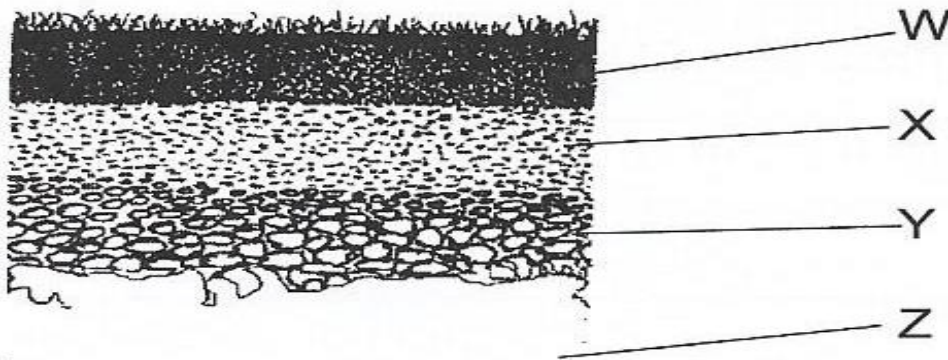
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(2 marks)

Study the figure below and use it to answer question 47



47. a. Name the soil layer labelled **X** and **Y**.

**X** \_\_\_\_\_

**Y** \_\_\_\_\_

(2 marks)

b. Why is layer labelled **W** moist suitable for crop production. Give **two** reasons.

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(2 marks)

48. a. Define a forest.

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(1 marks)

b. Give **two** main types of forest.

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(2 marks)

## SCIENCE AND TECHNOLOGY

49. a. Explain the functions of the following:

i. jack:

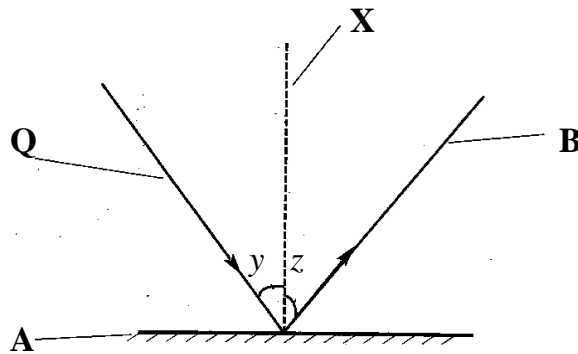
\_\_\_\_\_

ii. balance

\_\_\_\_\_

(2 marks)

Study the figure below and answer questions that follow.



b. Name the parts labelled A, B and C.

A \_\_\_\_\_

B \_\_\_\_\_

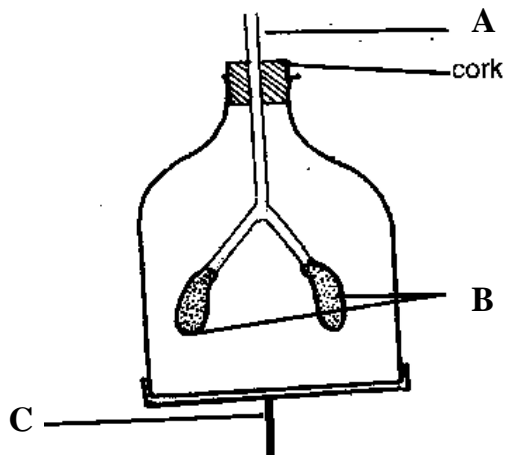
C \_\_\_\_\_

(3 marks)

c. If angle  $y$  is  $50^\circ$ , state the value of angle  $Z$ .

(1 mark)

Study the figure below and answer the questions that follow.





50. a. Name the parts labelled **A**, **B** and **C**.

**A** \_\_\_\_\_

**B** \_\_\_\_\_

**C** \_\_\_\_\_

(3 marks)

b. What does the following parts represent on the human breathing system?

**A** \_\_\_\_\_

**B** \_\_\_\_\_

**C** \_\_\_\_\_

(3 marks)

c. Explain what happens to the following when breathing in:

i. Diaphragm \_\_\_\_\_

ii. Ribs \_\_\_\_\_

(4 marks)

51. a. What is a meal?

\_\_\_\_\_

\_\_\_\_\_

(1 mark)

b. State **three** main meals in a day.

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

(3 marks)

c. Give **two** functions of the liver.

\_\_\_\_\_

\_\_\_\_\_

(2marks)

52. Explain the difference between lacto vegetarians and strict vegetarians.

\_\_\_\_\_

\_\_\_\_\_

(2 marks)

b. Why do some people become vegetarians? Give **two** points.

\_\_\_\_\_

\_\_\_\_\_

(2 marks)

53. State **two** ways of steaming food.

\_\_\_\_\_

\_\_\_\_\_

(2 marks)

b. Give any **two** types of traditional kitchen.

\_\_\_\_\_

\_\_\_\_\_

(2 marks)

**END OF QUESTION PAPER**

