

EXAMINATION NO.: \_\_\_\_\_  
**THE KASUNGU DISTRICT MOCK EXAMINATIONS BOARD (KADEB)**  
 2022 PRIMARY SCHOOL LEAVING CERTIFICATE EXAMINATION



# PRIMARY SCIENCES

(100 marks)

Friday 24 June, 2022.

Subject Number: P163  
 Time Allowed: 1 h 30 mins  
 1:00 – 2:30 pm

Name of Candidate: \_\_\_\_\_  
 (surname first)

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

**Instructions:**

1. This paper contains **6** printed pages. Please check.
2. Write your **Full Name** and **Name of your school** in the spaces provided above.
3. This paper has **two** sections **A** and **B**.
4. Answer **all** questions in **all** Sections. In section **A**, **encircle** the letter representing the **correct** answer. In sections **B**, write your answers in the spaces provided under each question.
5. In the table provided on this page, **tick** against the question number you have answered apart from questions **41** to **47**.

Question Number	Tick if answered	Do not write in these columns	
1 – 40			
41			
42			
43			
44			
45			
45			
47			
	<b>TOTAL</b>		

**5. IMPORTANT**

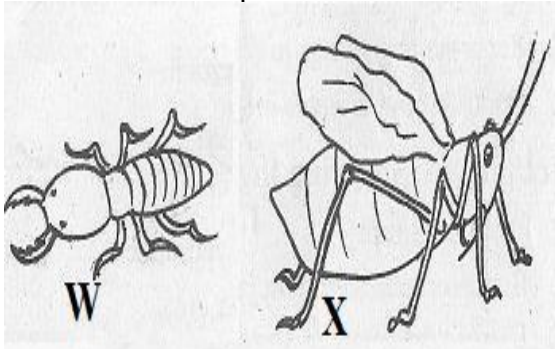
- Please make sure that you have written your **name** and **school name** on the question paper in the spaces provided.
- Hand in your question paper to the **invigilator** when time is called to stop writing.

**SECTION : A (40 Marks)**

**Encircle the letter representing the correct answer for each question**

1. The removal of unwanted tree branches is called \_\_\_\_?  
A. harvesting      B. pruning  
C. weeding        D. uprooting
2. Which of the following is the sub-branch of agriculture under animal production?  
A. poultry         B. agronomy  
C. Agroforestry   D. silviculture
3. Why is sun drying of fish important to a farmer?  
A. to sell the fish quickly  
B. to cook the fish easily  
C. to share the fish easily  
D. to improve the quality of fish
4. What is the recommended method of applying fertilizer in a rice field?  
A. dollop          B. banding  
C. foliar          D. broadcasting

**Figure 1** below is a diagram of common pests that cause damage to groundnuts. Use it to answer questions 5 to 7.

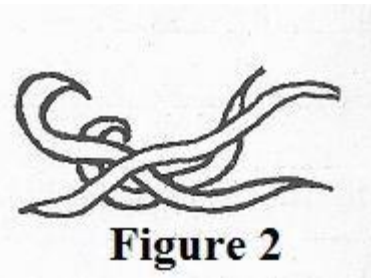


**Figure 1**

5. Which disease is spread by pest X?  
A. rosette         B. late leaf sport  
C. early leaf sport   D. groundnut rot
6. Identify pest marked W?  
A. grasshopper    B. termite  
C. rodent         D. caterpillar
7. What damage does pest marked W cause to groundnut?  
A. roots            B. flowers  
C. leaves          D. pods
8. Which part of the farm cart connects cart to necks of oxen?  
A. cart body      B. wheel  
C. York            D. dazzle boom

9. Why is it important to water seedlings before transplanting?  
A. for easy lifting of seedlings  
B. to make the crop grow faster  
C. to control diseases  
D. to make plants absorb water easily
10. Which of the following technologies is indigenous?  
A. grinding stone  
B. sewing machine  
C. cell phone  
D. electricity kettle

**Figure 2** is the diagram which shows an internal parasite of a chicken. Study it and answer questions 11 and 12.



**Figure 2**

11. What parasite of a chicken is shown above?  
A. tapeworm      B. liverfluke  
C. roundworm    D. hookworm
12. How can the parasite infection be prevented?  
A. deworming  
B. drenching  
C. raising young birds away from older birds  
D. raising young birds together with older ones
13. How can problems of marketing perishable products be solved?  
1. processing products  
2. growing them near market  
3. not over producing them  
4. reducing their prices on the market  
A. 1 and 4        B. 1 and 2  
C. 2 and 3        D. 3 and 4

**EXAMINATION NO.:**

- 14.** One of the advantages of tethering goats is to \_\_\_\_  
A. control grazing  
B. improve milk production  
C. encourage mating  
D. hasten recovery
- 15.** Crop produced could be sold at the profit when \_\_\_\_  
A. demand for the produce is low  
B. demand for the produce is high  
C. supply of the produce is high  
D. demand and supply of the produce are the same
- 16.** One of the factors to be considered when determining the number of fingerings to be put in a pond is \_\_\_\_  
A. type of fish  
B. depth of water body  
C. freshness of water  
D. the flow of water in and out
- 17.** On a poultry farm, one bird was twisting its neck and lacked balance. These are the symptoms of \_\_\_\_  
A. coccidiosis      B. fowl pox  
C. new castle      D. fowl typhoid
- 18.** Which of the following is a water plant that fish feeds on?  
A. algae              B. mushroom  
C. moss              D. rice
- 19.** Which of the following is an example of a milk goat?  
A. boer goat      B. Gaddi goat  
C. Kamori goat      D. Saanen goat
- 20.** Which of the following is the characteristics of indigenous trees?  
A. grow fast      B. withstand drought  
C. have soft wood      D. big in size

**SCIENCE AND TECHNOLOGY**

- 21.** What do you call the predicted answer in scientific investigation?  
A. hypothesis  
B. data analysis  
C. implementing data  
D. concluding data
- 22.** Which of the following is an emotional change that takes place in boys as they grow up?  
A. experience wet dreams  
B. develop sexual feelings  
C. develop deep voice  
D. produce sperms

- 23.** One of the examples of anthropod is:  
A. snail              B. earthworm  
C. fluke              D. insect
- 24.** Which of the following diseases attack the brain?  
A. rabies              B. fever  
C. Covid-19      D. cholera
- 25.** Which of the following is a disease caused by shortage of proteins in the body?  
A. marasmus      B. kwashiorkor  
C. anemia              D. malaria
- 26.** Where does fertilization take place in female?  
A. ovary              B. cervix  
C. uterus              D. Fallopian tube
- 27.** Which part of the eye controls size of pupil?  
A. iris              B. eye-lid  
C. sclera              D. eyelashes
- 28.** Which of the following fruits is dispersed by wind?  
A. tomato              B. mango  
C. Mlombwa      D. coconut
- 29.** Which type of force is produced by rubbing plastic case against hair?  
A. gravity              B. friction  
C. magnetic              D. electrostatic
- 30.** Which form of energy is converted from sun light?  
A. solar energy  
B. hydro  
C. geo-thermal  
D. wind power
- 31.** Which of the following is the breathing organ?  
A. liver              B. lungs  
C. stomach              D. kidney

**Figure 3** below shows an electrical component. Use it to answer questions 32 and 33.



**Figure 3**

- 32.** Name the component above.  
A. switch              B. bulb  
C. cell              D. fuse

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

- 33.** Identify the function of the component.  
A. switch on and off  
B. produce electricity  
C. to control current  
D. to give light
- 34.** Which of the following living things reproduce through binary fusion?  
A. worm                      B. anthropoids  
C. plasmodium      D. molasses
- 35.** Which of the following parts of a seed grows into a shoot?  
A. plumule  
B. radical  
C. testa  
D. embryo
- 36.** One way of controlling the population of mosquito is by \_\_\_\_  
A. mosquito repellents  
B. sleeping under mosquito nets  
C. draining stagnant water  
D. taking anti-malaria drugs

- 37.** Which of the following is a herbivore animal?  
A. people                      B. lion  
C. hawk                        D. goat
- 38.** When blood tests HIV positive, it means that \_\_\_\_  
A. it is not infected with HIV  
B. it is infected with HIV  
C. it can be used for transfusion  
D. it can be donated to any person
- 39.** Which blood vessel carried the blood to heart?  
A. capillary                      B. veins  
C. artery                        D. aorta
- 40.** Food rich in Fibre should be included in diet in order to: \_\_\_\_  
A. strengthen the teeth  
B. prevent anemia  
C. help in digestion  
D. allow blood clotting

**SECTION : B (60 Marks)**

**Answer all questions in the spaces provided under each question.**

**AGRICULTURE**

- 41.a.** Give **two** characteristics of good animal house. (2 marks)  
(i). \_\_\_\_\_  
\_\_\_\_\_  
(ii). \_\_\_\_\_  
\_\_\_\_\_
- b.** State **two** characteristics of commercial farming. (2 marks)  
(i). \_\_\_\_\_  
\_\_\_\_\_  
(ii). \_\_\_\_\_  
\_\_\_\_\_
- c.** Give **two** ways of seed treatment (2 marks)  
(i). \_\_\_\_\_  
\_\_\_\_\_  
(ii). \_\_\_\_\_  
\_\_\_\_\_

- d.** State **two** important of having enough capital at a farm. (2 marks)  
(i). \_\_\_\_\_  
\_\_\_\_\_  
(ii). \_\_\_\_\_  
\_\_\_\_\_
- 42.a.** Mention any **two** types of flowers. (2 marks)  
(i). \_\_\_\_\_  
(ii). \_\_\_\_\_
- b.** Give **two** ways of preserving flowers. (2 marks)  
(i). \_\_\_\_\_  
\_\_\_\_\_  
(ii). \_\_\_\_\_  
\_\_\_\_\_

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

- c.** State **two** ways how use of herbicides improve agricultural production.
- (i). \_\_\_\_\_  
\_\_\_\_\_
- (ii). \_\_\_\_\_  
\_\_\_\_\_
- (2 marks)

- d.** Give **two** factors to consider when choosing site for fish pond.
- (i). \_\_\_\_\_  
\_\_\_\_\_
- (ii). \_\_\_\_\_  
\_\_\_\_\_
- (2 marks)

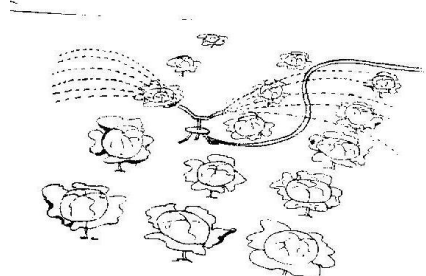
- 43.a.** Mention **two** end products that can be made from hides of cattle.
- (i). \_\_\_\_\_  
(ii). \_\_\_\_\_
- (2 marks)

- b.** Give **two** diseases of chickens caused by virus.
- (i). \_\_\_\_\_  
(ii). \_\_\_\_\_
- (2 marks)

- c.** State **two** examples of improved variety of cassava.
- (i). \_\_\_\_\_  
(ii). \_\_\_\_\_
- (2 marks)

- d.** Give **two** ways of transporting a ridger and plough safely.
- (i). \_\_\_\_\_  
\_\_\_\_\_
- (ii). \_\_\_\_\_  
\_\_\_\_\_
- (2 marks)

**Figure 4** below shows a method of irrigation.



- 43.a.** Identify the method of irrigation.  
\_\_\_\_\_ (1 mark)

- b.** State how the method is used to irrigate crops  
\_\_\_\_\_  
\_\_\_\_\_ (1 mark)

- c.** Give **two** ways of copying with risks in farm business.
- (i). \_\_\_\_\_  
\_\_\_\_\_
- (ii). \_\_\_\_\_  
\_\_\_\_\_ (2 marks)

- d.** Mention **two** aims of agriculture as a business.
- (i). \_\_\_\_\_  
\_\_\_\_\_
- (ii). \_\_\_\_\_  
\_\_\_\_\_ (2 marks)

**SCIENCE AND TECHNOLOGY**

- 44.a.** State **three** major function of food.
- (i). \_\_\_\_\_  
(ii). \_\_\_\_\_  
(iii). \_\_\_\_\_ (3 marks)

- b.** State **two** effects of under nutrition.
- (i). \_\_\_\_\_  
\_\_\_\_\_
- (ii). \_\_\_\_\_  
\_\_\_\_\_
- (iii). \_\_\_\_\_  
\_\_\_\_\_ (3 marks)

- c.** Which system of telephone allows transmission of voice of long distance?  
\_\_\_\_\_ (1 mark)

- d.** Give **two** ways of obtaining bigger mechanical advantage on inclined plane.
- (i). \_\_\_\_\_  
\_\_\_\_\_
- (ii). \_\_\_\_\_  
\_\_\_\_\_ (2 marks)

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

**Study Figure 5** below which shows a method of cooking.



**45.a.** Identify the method shown above.

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

**b.** Give **two** advantages of cooking food using the method above.

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

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

(2 marks)

**c.** Give **two** physiological needs of a pregnant woman.

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

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

(2 marks)

**d.** State a method of separating water from paraffin.

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

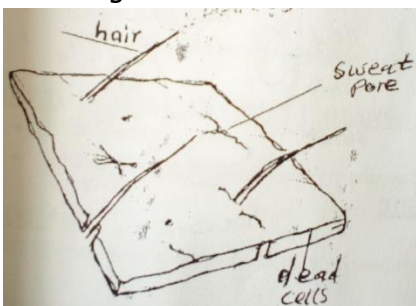
**46.a.** Give **two** advantages of using parallel circuit.

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

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

(2 marks)

Study the **figure 6** below which shows sense organ.



**b.(i).** Name the sense organ.

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

(ii). Give **two** problems of the sense organ.

(1). \_\_\_\_\_

(2). \_\_\_\_\_

(2 marks)

**c.** Give **two** symptoms of rickets.

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

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

(2 marks)

**d.** Mention **two** functions of medulla oblongata

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

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

(2 marks)

**e.** Give **two** examples of mineral stains

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

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

(2 marks)

**47.a.** Give any **two** agents of pollination.

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

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

(2 marks)

**b.** State any **two** characteristics of wind pollinated flowers.

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

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

(2 marks)

**END OF QUESTION PAPER.**