****UGANDA NATIONAL EXAMINATION BOARD

PRIMARY LEAVING EXAMINATION

Dr. Bbosa Science

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**Science 1999**

Time allowed: 2hours 15 minutes

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Index No:

Candidate’s Name……………………………………………………………………………………..

Candidate’s signature…………………………………………………………………………………..

District Name…………………………………………………………………………………………………

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| **FOR EXAMINERS**  **USE ONLY** | | |
| **Qn. No** | **MARKS** | **EXR’S NO.** |
| **1-10** |  |  |
| **11-20** |  |  |
| **21-30** |  |  |
| **31-40** |  |  |
| **51** |  |  |
| **52** |  |  |
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| **55** |  |  |
| **Total** |  |  |

Read the following instructions carefully

1. This paper has two sections **A** and **B.** Section **A** has 50 questions and section **B** has 5 questions. The paper has 15 pages following altogether.
2. Answer all questions. All answers to both sections A and B must be **written** in the spaces provided.
3. All answers must be written using a blue or black ball-point pen or ink. **Any** work written in pencil other than graphs, pictures and diagrams will **not** be marked.
4. Unnecessary change of work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss to marks.
6. Do not fill anything in the boxes indicated:
7. “For examiners’. Use only and inside the question paper

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SECTION A

1. Give the functions of the feeler of an insect.

……………………………………………………………………………………………………………………………………………………..

1. Draw a simple diagram of a red blood cell in the space provided below.
2. Name one breed of pig commonly kept in Uganda.

……………………………………………………………………………………………………………………………………………………..

1. Why is a person suffering from diarrhea given treatment for dehydration?

……………………………………………………………………………………………………………………………………………………..

1. State any one practice which may prevent hook-worm infestation.

…………………………………………………………………………………………………………………………………………………….

1. Give one example of a green plant which reproduces by means of spores.

……………………………………………………………………………………………………………………………………………………

1. State the most important part of the nervous system.

……………………………………………………………………………………………………………………………………………………

1. State one way in which a spider is similar to a cockroach.

……………………………………………………………………………………………………………………………………………………

1. State one way is the retina of human eye similar to the film of a pinhole camera.

……………………………………………………………………………………………………………………………………………………

1. In the diagram below, what class of lever is represented.

Fulcrum

Load

Effort

……………………………………………………………………………………………………………………………………………………

1. What food nutrient are leguminous crops rich in?

……………………………………………………………………………………………………………………………………………………

1. Give one of the functions of the human ear.

……………………………………………………………………………………………………………………………………………………

1. Which body system commonly infected by polio?

……………………………………………………………………………………………………………………………………………………

1. Why would animals in a paddock system not easily be attacked by East Coast Fever.

……………………………………………………………………………………………………………………………………………………

1. What is the immediate result of fertilization in both plants and animals?

……………………………………………………………………………………………………………………………………………………

1. Which type of sheep is reared by wool.

……………………………………………………………………………………………………………………………………………………

1. Which condition is caused by shortage of red blood cells in the body?

……………………………………………………………………………………………………………………………………………………

1. How does the lens shown below affect light rays.

……………………………………………………………………………………………………………………………………………………

1. Which big mammal lives its whole life in water?

……………………………………………………………………………………………………………………………………………………

1. State the first stage of soil formation from rocks.

……………………………………………………………………………………………………………………………………………………

1. Why it is important to look left, right then left again before crossing the road?

……………………………………………………………………………………………………………………………………………………

1. What is the importance of human teeth in the digestion of food?

……………………………………………………………………………………………………………………………………………………

1. What type of electricity is obtained by rubbing a plastic material against hair or woolen cloth?

……………………………………………………………………………………………………………………………………………………

1. Apart from contour ploughing, strip ploughing and mulching, give one other practice which is useful for soil conservation on hilly ground

……………………………………………………………………………………………………………………………………………………

1. What happens to the blood as it passes through the kidney?

……………………………………………………………………………………………………………………………………………………

1. What type of change occurs to an egg which has been left in boiling water or more than ten minutes?

……………………………………………………………………………………………………………………………………………………

Use the diagram of a leaf below to answer questions 27 and 28

P

E

1. What is part marked P?

……………………………………………………………………………………………………………………………………………………

1. Give one function of part E.

……………………………………………………………………………………………………………………………………………………

1. Why do you think photosynthesis in not likely to take place at night?

……………………………………………………………………………………………………………………………………………………

1. State any one biological change which occur in female adolescent but not occur in male ones?

……………………………………………………………………………………………………………………………………………………

1. Why is it dangerous to stay near a person who is smoking?

……………………………………………………………………………………………………………………………………………………

1. Why is osmosis an important process in for plants?

……………………………………………………………………………………………………………………………………………………

1. What is the danger of taking drugs that are not prescribed by a health worker?

……………………………………………………………………………………………………………………………………………………

1. Give one example where filtration process is used at home.

……………………………………………………………………………………………………………………………………………………

1. When peter looked into a plane mirror, he saw his face at the back of a plane mirror. How did the face get into the back of plane mirror?

……………………………………………………………………………………………………………………………………………………

1. Why is it advisable for parents to take their children for immunization?

……………………………………………………………………………………………………………………………………………………

1. Why should a girl avoid teenage pregnancy?

……………………………………………………………………………………………………………………………………………………

1. How can water vapour be turned into a liquid?

……………………………………………………………………………………………………………………………………………………

1. Why is it not advisable to use water to put off fire caused by petrol?

……………………………………………………………………………………………………………………………………………………

1. What is the importance of keeping clothes clean?

……………………………………………………………………………………………………………………………………………………

SECTION B

1. The diagram below shows glass tubes of the same size with water at different levels as indicated. Study then and answer the questions that follow.

A B C D

Water

Water

Water

Water

1. If each tube is blown separately, which one will produce
2. Highest sound

……………………………………………………………………………………………………………………………………………………

1. Lowest sound

……………………………………………………………………………………………………………………………………………………

1. What happens to the sound produced by A if water is increased to the level of the tube D?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. What happens to the sound produced by each of the tubes if water was replaced by the same quantity of milk?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. The diagram below is for a maize grain. Study it and answer the questions (a) to (d) which follows

A

B

C

1. How is the part marked C useful to the grain?

……………………………………………………………………………………………………………………………………………………

1. What does part marked B become during germination?

……………………………………………………………………………………………………………………………………………………

1. What is the importance of the part marked A?

……………………………………………………………………………………………………………………………………………………

1. Which of the marked parts is not important in germination?

……………………………………………………………………………………………………………………………………………………

……………………………………………………………………………………………………………………………………………………

1. A mill bug is a common crop pest.
2. Name any two vegetable crops it affects

……………………………………………………………………………………………………………………………………………………

1. What can be done to prevent it from attacking the crops you have named in (a) above?

……………………………………………………………………………………………………………………………………………………

1. What natural method controls milli bug pests in a garden?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. (a) What is a magnet?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Give one example of how a doctor in a hospital can use a magnet.

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Give two items found in homes which make use of magnets.

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. When measles attacks a child, there are signs and symptoms:

(a) Give an example of:

(i) a sign of measles

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. a symptom of measles

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) In which way can measles can be prevented from attacking a baby?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Why is it important to give a child suffering from measles plenty of fluids to drink?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. (a) give the type of chicken reared for:
2. Meat ………………………………………………………………………………………………………………………………
3. Eggs ………………………………………………………………………………………………………………………………..

(b) Suggest two ways you would care for chicken to improve upon egg production.

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. (a) Name one practice which increases the spread of bilharzia.

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) which vector is important in the spread of bilharzia.

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(c) Give any two ways of preventing the spread of bilharzia.

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. (a) Draw two dry cells arranged correctly and ready to give light in a bulb.

(b) If you get a new torch with new dry cells and new working bulb in place, but when you switch it on, the bulb does not light. Suggest two possible problems with the torch.

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. (a) What is first Aid?

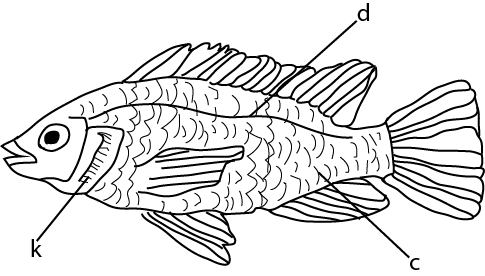
…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Why would it be dangerous for a boy of 11 years to try to remove an adult, who is near drowning, from water?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(c) Suggest two things the boy in (b) above should do to save the adult from drowning.

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. The diagram below is a fish. Study it and answer the questions which follow.
2. Mark with letter P, the part which enables the fish to move forward.
3. What is the function of part marked C?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. Complete the table to compare the parts marked k and d to those of a goat.

|  |  |
| --- | --- |
| Parts in fish | Name the similar part in a goat |
| 1. K 2. d | ……………………………………………………………………………………………………….  ………………………………………………………………………………………………………. |

1. (a) What is the mixture of two or more metals

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Give one example of a common mixture of metals.

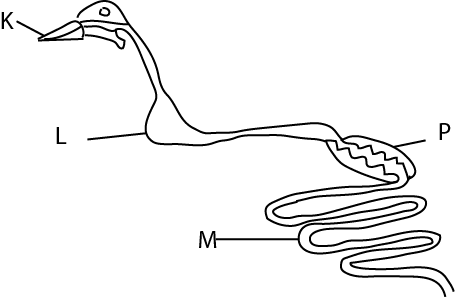
…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. how does heat move from one point to another in a metal?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. apart from painting, give any one method of preventing a metallic object from rusting.

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. The diagram below shows the alimentary canal of a bird. Use it to answer the questions that follow.
2. What does the bird use part K for?

……………………………………………………………………………………………………………………………………………………

1. What is the function of part L?

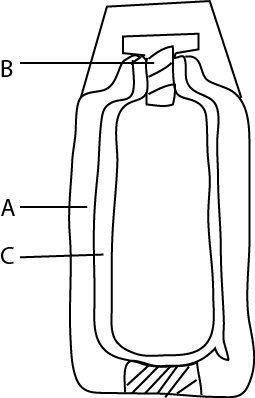
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1. What takes place in part marked P?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. How is part marked M useful to the bird?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. The diagram below is of domestic item. Study it and answer the question that follow.
2. What is part marked A made of

……………………………………………………………………………………………………………………………………………………

1. What is the function of part marked C?

……………………………………………………………………………………………………………………………………………………

1. Why is part marked B useful in this item?

……………………………………………………………………………………………………………………………………………………

1. Why is it that many homes do not use the item?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. (a) State any two qualities of an essential drug.

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

(b) Give any two advantages of laboratory manufactured drugs over traditional ones

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. (a) If the temperature of tea which is 450C reduces by 150C. what will be the temperature of the tea.

……………………………………………………………………………………………………………………………………………………

(b)Change your answer in (a) above to Fahrenheit. Scale.

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

END