



Dr. Bbosa Science

UGANDA NATIONAL EXAMINATION BOARD
PRIMARY LEAVING EXAMINATION



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Science 1996

Time allowed: 2 hours 15 minutes

Index No:

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Candidate's Name.....

Candidate's signature.....

District Name.....

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

FOR EXAMINERS USE ONLY		
Qn. No	MARKS	EXR'S NO.
1-10		
11-20		
21-30		
31-40		
51		
52		
53		
54		
55		
Total		

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1. Common salt give flavor to our food. State on more use of slat in our diet.

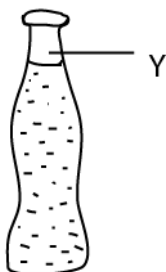
Preserve diet

For water balance in the body

2. In which way is burning similar to rusting?

They both use oxygen

The diagram below is of a sealed soda bottle. Use it to answer questions 3 and 4.



3. Why was the space labelled Y left in the bottle?

To allow for expansion of the liquid and space for carbon dioxide

4. Name the gas that bubbles out when the soda is opened.

Carbon dioxide

5. Apart from light, carbon dioxide and water, what else does a leaf need to accumulate food?

chlorophyll

6. Why is a person who is suffering from diarrhea given oral rehydration salts?

To replace lost water and salt

7. The driver started at 8.00am from Kampala. He reached Masaka which is 120km at 10.30am.
what was his average speed?

Time taken $10.30 - 8.00 = 2 \frac{1}{2}$ hours

$$\text{speed} = \frac{\text{Distance}}{\text{time}} = \frac{120}{\frac{5}{2}} = \frac{120 \times 2}{5} = 48 \text{kmhr}^{-1}$$

8. Peter's maize did not do well because he left weeds in the maize garden. What are weed?

Weeds are unwanted plants in a garden that compete for nutrients with our crops

9. State one method of avoiding tooth decay.

Regular brushing of teeth after every meals.

10. What is the use of an anemometer in a weather station?

Anemometer measures wind speed

11. What First Aid would you give to a person who is bleeding through the nose?

Make a person lean forward and pitch the nose to stop bleeding

Bbosa has the foods named below to feed his family.

Use the list to answer questions 12 to 15

Mangoes

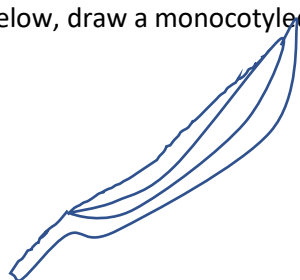
Potatoes

Beans

Rice

Green dodo

12. Mrs. Bbosa has anemia, which food from the list would you advise her to eat?
Green dodo and beans
13. Give reason for your answer in question 12.
They are both source of iron for formation of hemoglobin.
14. Which food from the list would you recommend for Bbosa's child suffering from Kwashiorkor to eat?
beans
15. Give a reason for your answer in question 14.
Source of proteins
16. What type of a family has the following, husband, wife, daughter and nephew?
Extended family because nephew is not a biological child
17. State some one major reason why breast milk is considered the best food for a bay?
Contains all food nutrients needed by the child
18. Why is mercury is used in a thermometer?
Mercury expands uniformly
Mercury does not wet glass
Mercury does not wet glass
It does not evaporate in glass
19. Why is a child immunized against measles at age of 9 months but not soon after birth?
At birth the child is protected by antibodies from the mother
At birth the vaccine is too strong for the baby.
20. State one way of reducing friction.
By oiling
By greasing
By use of roller
By use of ball bearing
21. Why is it advisable to cover your mouth with handkerchief when sneezing?
To prevent transmission of germs in the air
22. What is the importance of red blood cells in human body?
Transport oxygen in blood
23. Give one reason why loam soil is good for planting crops?
It contains humus and most nutrients needed for plant growth.
24. Scurvy is cause by lack of a vitamin. Name the vitamin.
Vitamin C
25. Name the main food you would eat to prevent scurvy?
Fruits like oranges, lemon
26. In the space below, draw a monocotyledonous plant.



27. What part of the ear is likely to be damaged if you clean your ear with a sharp object?

Eardrum

28. Calculate the mass of an object whose volume is 15cm^3 and density is 30g/cm^3 .

$$\begin{aligned}\text{Mass} &= \text{density} \times \text{volume} \\ &= 30 \times 15 \\ &= 450\text{g}\end{aligned}$$

29. State one reason why David should keep record on his farm.

To know the number of each type on his farm

To know his expenditure

To know the amount of food required by his animal

30. Bbosa lost all the molars. What problems is he likely to have while eating?

Bbosa is likely to have a problem of chewing food

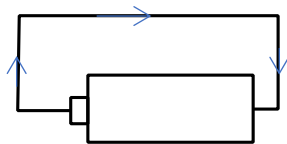
31. State one way in which a family can avoid the spread of tuberculosis.

Avoid smoking

Not sharing cups and plates with infected person

Take treatment in the right way

32. In the diagram below indicate using an arrow the direction of the flow of electricity.



33. State one reason why water is important in our diet.

Soften food

Regulate body temperature

To replace water lost in sweating and urination

34. What is the best way of protecting cattle against foot and mouth disease?

Vaccination

Keeping infected animal from none infected animals

Conducting quarantine.

35. State one characteristic of an image formed by a pin hole camera.

It is upside down or inverted

It is real

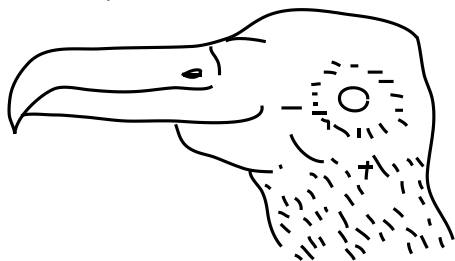
36. State a mammal which lives in both land and water in Uganda.

Hippopotamus

37. What is weaning a child?

Is a process of making a baby get used to other foods while breast feeding

Use the picture of an animal below to answer question 38 and 39



38. What does the animal shown in the picture above feed on?

Flesh

39. Why do you think the animal above is important in our community?

Get ride off dead bodies from the environment

40. Give one example of underground stem.

Rhizome, corm,

SECTION B

41. Bbosa stepped on a burning charcoal by accident. He immediately removed the foot.

(a) Wat name is given to his immediate reaction?

Reflex action

(b) Which part of the body controls this type of reaction?

Spinal chord

(c) Name the muscles which helped Bbosa to remove the foot immediately.

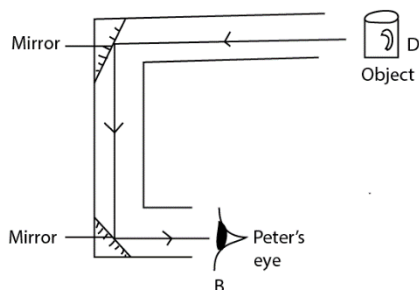
biceps

(d) What first Aid would you give Bbosa?

Step in clean cold water

42. The diagram below represents an instrument used in science.

Use it to answer the questions that follow:



(a) How is peter at position B able to see the object at D?

By reflection through the mirrors

(b) What type of mirrors are used in this instrument?

Plane mirrors

(c) What is the name of this instrument?

Periscope

(d) Give the situation where this instrument is used?

Those objects at the surface of water by people in submarine

43. State one reason why a frog is able to live both on land and water comfortably.

In water it breathes through the skin, no land through the lungs

(b) to which group of animals does it belong?

Amphibians

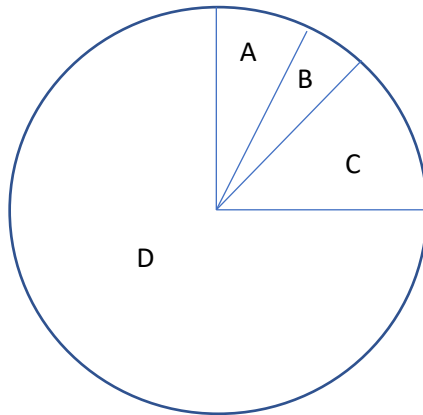
(c) What helps a frog to swim easily?

It has webbed feet

(e) How does it protect its eggs?

It spreads spawn jelly around the eggs

44. The pie chart shows the proportion of air. They are labelled A, B, C, D. use it to answer the questions that follow.



(a) Which letter in the pie chart represents the gas which supports both breathing and burning?

C

(b) What is the use of the gas labelled A?

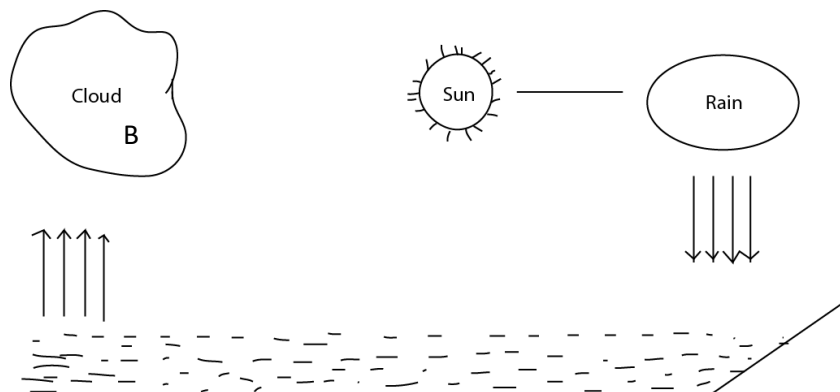
It is used to put off fire from burning objects

Name the gas labelled

(i) D: **nitrogen**

(ii) A: **carbon dioxide**

45. The diagram below shows how rain is formed. Use it to answer the questions that follow.



- (a) What causes the water vapour to rise from the river as shown in the diagram?
Heat from the sun
- (b) What happens to water vapour at B?
It condenses to form cloud
- (c) Name the force that helps rain to fall.
Gravitation force
- (d) What name is given to the process shown in the diagram?
Water cycle
46. (a) How does a banana plant multiply?
By suckers
- (b) What insect pest attacks banana?
Banana weevil
- (c) In which part of the plant would you find this pest?
Stem
- (d) State the method you would use to control the insect pest.
Use insecticide to kill the pest.
By destroying infected plant
47. Lightning is dangerous to man
- (a) State two precautions you would take to avoid being struck by lightning.
Putting lightning conductors on buildings
Not standing under the tree during rain
- (b) Which forms of energy does lightning have?
Light energy
Sound energy
Heat energy
48. Bbosa wants to start a livestock farm. State any four basic requirements he must consider for his farm to succeed.
Capital
Availability of
Good breed animals
Nearness to market
Availability of security
49. Food was given to very hungry children and they ate it very fast without chewing.
- (a) State any two problems that are likely to affect their digestion system.
Indigestion
Vomiting
constipation
- (b) State two uses of saliva in the digestive system.
Softens food
Lubricates food for swallowing
Contains amylase enzyme that digests starch

50. (a) Give two reasons why First Aid is given to a patient.

To prevent further injury

To minimize pain

To promote recovery

To reduce bleeding

(b) State two reasons why proper medical prescription is necessary before taking any medicine.

51. The table below shows crops pests and the crop they destroy. Complete the table by filling in the blank spaces.

Pest	Crop
(a) Rabbit or caterpillar	Potato leaves
(b) Birds	Millet, sorghum, rice, wheat
(c) Caterpillars, false coding months	Orange leaves
(d) Aphids	Beans, fruit

52. (a) Name any two immunizable diseases caused by bacteria.

Tuberculosis

Polio

Tetanus

Whooping cough

(c) State two uses of Health cards

To know the weight of the baby

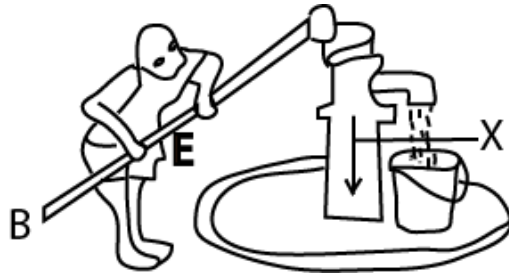
To know the sex

To know the date of birth

To know which vaccines already given

To monitor child's growth

53. The diagram below shows a boy collecting water from a water pump. Use it to answer the questions that follow.



(a) Mark on the diagram with letter E the position of the effort.

(b) What does the part marked X represent?

Atmospheric pressure

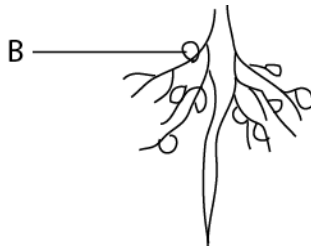
(c) What change would the boy experience if he moved the hands to position B?

He would use less effort to pump water

(d) If the effort is 20, and the load is 80, what is the mechanical advantage of the pump?

$$\text{Mechanical advantage} = \frac{\text{load}}{\text{effort}} = \frac{80}{20} = 4$$

54. The diagram below shows the root of a plant. Use it to answer the questions that follow.



(a) Name the part labelled B.

Root nodules

(b) What group of plants have such roots?

Leguminous plants

(c) What does part labelled B contain?

bacteria

(d) What is the function of what you named in (c) above?

Fix nitrogen to the soil

55. Describe an experiment to show that water can exist in all three states of matter.

When ice is heated it turns into liquid (water) and on further heating it turns into vapor (steam)