

UGANDA NATIONAL EXAMINATION BOARD PRIMARY LEAVING EXAMINATION



Science 1998

Index No:	Time allowed: 2hours 15 minutes								

Candidate's signature.....

District Name.....

Candidate's 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.
- 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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SECTION A

1. Give any one reason why you think that brushing of teeth prevents tooth decay

Remove food particles that attract bacteria that cause tooth decay

2. Give one example of where refraction of light can be a disadvantage.

Water bodies look swallower than they are actually which may lead to drowning.

3. How is a person get infected with tetanus?

Through dirty wounds

4. Suggest one way of preventing poultry from pecking each other.

Debeaking

Giving enough space

Giving enough food

5. What is drug abuse?

Taking drugs classified as illegal

6. Give the importance of bacteria found in root nodules of leguminous plants to the soil.

They fix nitrogen to the soil

7. Metals are usually painted to prevent them from rusting. How is painting help in stopping metals from rusting?

Painting prevents water and oxygen coming into contact with the metal

8. If your friend accidentally pours hot milk on his/her hand, what First Aid would you give him or her.

Put the hand in cold water or pouring water to injured hand.

9. Give one reason you think mushrooms are similar to fungi.

Both lack chlorophyll

They both do not manufacture their own food.

They both reproduce by spore formation

10. Suggest one way through which foot and mouth disease spread in cattle.

Through body contact

11. Give one sign of syphilis.

Sores on the private parts

Swollen joints

Painful urination

12. How is a habit of bee visiting flowers important to the plant?

Pollinate the plants

13. Suggest one reason why dew usually forms at night and not during day?

Vapour condense due to coldness

14. What is the importance of mineral salt in a child's diet

Strengthen bones and tooth

15. How do human action controlled by the spinal chord different from those which are controlled by the brain?

Spinal cord controls reflex action whereas the brain controls voluntary action

16. Give an example of a ball and socket joint in human being.

Shoulder joint

Hip joint

17. Give one way in which friction is a disadvantage.

Wear shoes

Lead to production of a lot of noise

Retards motion

Produces unwanted heat

18. State any one function of human kidney.

Regulates body water

Removes urea and ammonia form blood

Controls pH of blood

19. What is the importance of a nursery bed to a vegetable farmer.

Help a farmer to care for the seedlings

A nursery bed protects the seedlings from direct damaging rain and sunlight.

A nursery bed occupies small space

20. Give any one reason you think a plant is a living thing.

It grows

It reproduces

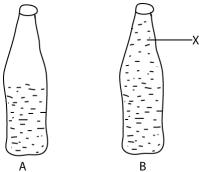
Feeds

Respires

Excretes

Responds to stimuli

John poured paraffin in the bottle as shown in A below. He added water to fill the bottle as shown in B below. Use the diagram to answer questions 21 and 22.



21. Name the liquid labelled X

paraffin

22. Give a reason for your answer in question 21 above.

Paraffin is less dense than water

Use the diagram below to answer question 23.



23. Isaac who weighs 30kg and Susan who weight 45kg sit on seesaw above, such that Isaac sits at point X and Susan at point Y. which side of the seesaw go down?

Taking moments at the fulcrum

Clockwise moment = 4 x 45 = 180gm

Anticlockwise moment = 30 x 6 = 180gm

Since clockwise moment = anticlockwise moment, the seesaw balances.

24. How does leprosy spread?

Through body contact with infected person

Through nasal secretion for infected person

25. Apart from being a state of matter, in which way are liquids similar to gases?

Particles are widely spaced

In both heat is conducted by convection

26. Give any one way in which a child can acquire immunity against a disease without being given a vaccine.

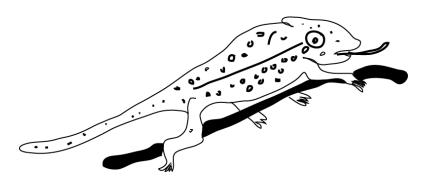
By suffering and recover from the disease

Through breast milk.

27. Give one example on how man uses water to produce energy.

For production of hydroelectricity

The diagram below shows an animal commonly found in the school surroundings. Use it to answer questions 28 and 29



28. To which group of animals does this belong? **Reptiles**

29. How doe the animal protects itself from its enemies?

by changing color to blend with environment so that it is not easily seen.

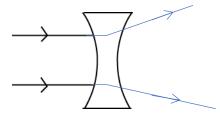
30. What advice would you give to a mother whose child is suffering from kwashiorkor?

Feed the child on foods rich in proteins

- 31. Which structure of an insect has the same function as gills in fish?
 Spiracles
- 32. John threw a blanket on to a burning fire and the fire was put out. How did the blanket help in putting out the fire?

It obstructed oxygen in the source.

33. Complete the rays through the lens in the diagram below.



34. Suggest one reason why blood goes to the lungs before it circulates to all parts of the body.

To get oxygenated

35. Why do electricity wires hanging on the electric pole sometimes, appear loose and other times tight?

When thy expand they appear loose on hot day and when they contract on a cold day they appear tight

36. Which part of the eye function like a film in a camera?

Retina

37. Which body organ is damaged when you drink a lot of alcohol?

Brain

Liver,

Kidney

38. Give any one reason why it is not advisable to buy and use medicine from local shops?

Drugs may be expired

One may take wrong dose

One may buy wrong drug

39. Peter's friend is suffering from scurvy. Suggest reasons why peters friend is suffering from that disease.

He lack vitamin C.

40. Give any one way a farmer can improve on the local breed of cattle.

By cross breeding

SECTION B

- 41. Most of our problems can be solved without use drugs. Suggest any four ways in which this can be done.
 - Maintaining proper hygiene
 - Feeding on balanced food
 - Regular exercises
 - Keeping proper sanitation

Th diagram below shows a lantern lamp. Use it to answer question 42



42. (a) how does paraffin move up through the wick?

By capillary action

(b) Name two forms of energy produced by this lantern lamp.

Light energy

Heat energy

(c) what is the use of part marked S.

Allow in oxygen to support burning

43. (a) Give two ways in which you can prevent malaria in your home? Sleeping in mosquito insecticide treated nets

Draining stagnant water

Slashing around the house

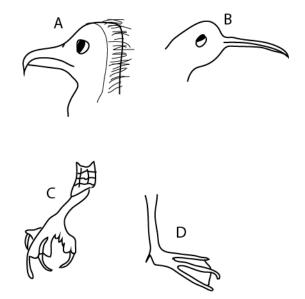
Spraying the house with insecticides

(b) Suggest two reasons why HIV/ AIDS infection tends to be more common among female adolescents than in the male adolescents?

They mature faster than male and desire sex earlier

They receive infected sperms

44. The diagram below shows the beaks and feet of birds. Use it to answer the questions that follow.



- (a) Suggest the type of food that part labelled A feed on. **Flesh**
- (b) How does the bird use the claw (foot) labeled C for feeding?

 Holding or picking its prey
- (c) What type of food is suitable for the bird's beak labelled B? Nectar, insects

How useful is the foot labelled D to the bird?

For swimming in water

45. (a) Give two functions of the nerves in e human body.

Conduct impulses to the brain

To transport impulses from the brain to the body

(b) In which ways is food important in the human body?

To provide materials for growth

For body repair

Provide energy

Cure deficiency diseases

46. Give any four method commonly used to preserve meat.

Smoking

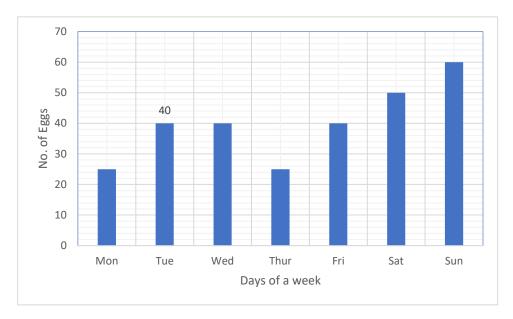
reirrigation

Tinning

Salting

Cooking

47. The graph below shows the number of eggs laid on a poultry farm



(a) On which day was the highest production recorded?

Sunday

(b) What was the average number of eggs produced per day?

Average =
$$\frac{sum\ od\ eggs}{number\ of\ days}$$
 = $\frac{25+40+40+25+40+50+60}{7}$ = $\frac{280}{7}$ = $40eggs$

(c) If an egg cost shs. 100/= how much money did the farmer gat that week? 1 egg cost 100

28 eggs cost 28 x 100 = 2800/=

(d) Suggest the problem which could have caused the low production on Monday and Tuesday?

Theft

Poor feeding

48. (a) What is the use of fuse in a circuit?

Prevents short circuit

(b) Give three reasons why a bulb of torch may not give light when the switch is on.

Improper arrangement of batteries

Loosely fixed bulb

Rusty or non-functioning switch

49. Describe an experiment to show that air has weight?

Apparatus

Balance

Empty balloon

Inflated balloon

Procedure

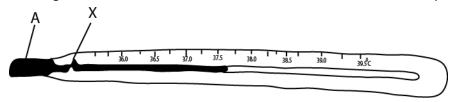
Weight the balloon and a thread

Inflate and tie the balloon with a thread and weigh it again.

Finding

Inflated balloon is heavier than uninflated balloon showing that air has weight .

50. The diagram below shows a common instrument. Use it to answer the questions (a) to (d).



(a) What is the use of the above instrument?

To measure body temperature

(b) Name the liquid labelled A.

Mercury

(c) Why is the liquid named in (b) used in the instrument?

It expands uniformly

Does not wet glass

It can be seen easily

It does not evaporate inside the tube

(d) What is the importance of part marked X?

To prevent backflow of mercury

51. (a) Name three things required by leaves for the process of photosynthesis to take place

Water

Carbon dioxide

Sunlight

chlorophyll

(b) Give the importance of photosynthesis to the flowering plants.

Manufacture food for the plants

- 52. (a) What type of immunity does a child get in each of the following
 - (i) From mother to child.

Passive immunization

(ii) After immunization

Artificial immunization

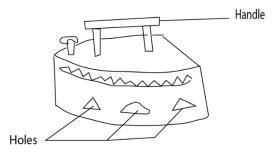
(iii) After suffering from a disease like measles?

Natural immunity

(b) Why should a pregnant mother be immunized against tetanus?

To prevent her and her child from getting tetanus at delivery

53. The diagram below shows a charcoal flat iron box.



(a) Why is the handle of the flat iron box made of wood?

Wood is a poor conductor of heat

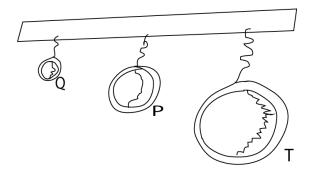
(b) State two uses of holes in that iron box.

Allow in oxygen

For removing the ash

(c) How does heat from the iron box reached the user's body?
Radiation

54. The diagram below shows three metallic rings Q, P, T.



- (a) Which ring will produce:
 - (i) Sound of a low pitch? : **T**
 - (ii) Sound of a high pitch? **Q**
- (b) Name any two devices that can be used to store sound.

Sound tapes

Compact disc

55. Suggest four reasons why physical exercise are important to our bodies

Improve immunity

Makes body fit

Makes body fit

Allow proper digestion

Improves flexibility of the body

Burns excess fat

END