



Dr. Bbosa Science

UGANDA NATIONAL EXAMINATION BOARD
PRIMARY LEAVING EXAMINATION



Science 1997

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		

1. Apart from oxygen, name any one other part of air

Carbon dioxide

Nitrogen

Rare gas

Rare gas

2. Give one difference between algae and fungi

- Algae has chlorophyll while fungi do not
- Algae manufacture their food whereas fungi do not.

3. How is a vector different from a pest?

Vectors spread diseases while pests destroy crops

4. Bbosa breathed on a mirror several times. He could not himself clearly later, why?

The air moisture formed on the mirror lead to diffuse reflection leading blurred vision

5. Mention one agent of soil erosion.

Animal

running water

wind

6. Why is water necessary for germination?

To break the Testa

To dissolve nutrients

7. Why is the skull important part of the body?

To protect the brain from mechanical damage

8. Apart from learning about animals and crops, suggest one other reason for starting a farm.

To get income

To get eggs

To get employment.

9. Name the tooth in the diagram below.



Canine tooth

10. Why is a concave lens used to correct short sightedness?

Diverges light rays such that the image forms at the retina

11. Give one danger of poor disposal of human feces.

Spreads diseases such as cholera

12. Why should a pit latrine be covered?

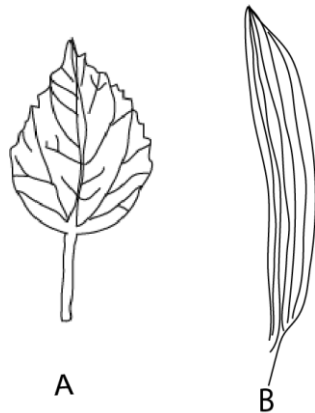
To reduce bad smell

To prevent house flies from carrying germs to food

13. What is the use of a dustbin in a home?

To dispose of rubbish.

14. When does a person become dehydrated?
When he/she loses water through vomiting or diarrhea.
15. What happens when an industry releases a lot of smoke into the atmosphere?
Pollutes air
Leads to acid rain
16. Explain why a borehole water is safe to drink.
It is not easily contaminated because it is not exposed
17. Explain one way of keeping food safe and clean.
By covering it
By keeping in refrigerator.
18. Why should children eat more proteins than the old people?
To enable them grow well
19. State any way in which spiders are different from insects.
Spiders have four pairs of legs while insects have 3 pairs of legs
Spider has two main body parts while insects have three main body parts.
20. Give one way in which flowering plants are useful to man.
They provide decoration
They provide food
Provide oxygen
Provide medicine
21. The diagram below shows different leaves, A and B.



Which of the following leaves is from a monocotyledonous plant?

Leaf

22. Apart from the leaf structure, give one other difference between a monocotyledonous plant and a dicotyledonous plant.
 - **Monocots have fibrous roots while dicots have tap roots**
 - **Monocots have floral parts in 3s while dicots have floral parts in 4s or 5s**
23. Give the main use of leaves to the plant.
They carry out photosynthesis
They carry out gaseous exchange

24. State one reason why burning and breathing are similar.

They need oxygen.

25. What change takes place when you eat food and get energy.

Chemical change

26. State the difference between conduction and radiation.

Conduction is the transfer of heat through solids while radiation is the transfer of heat through gases

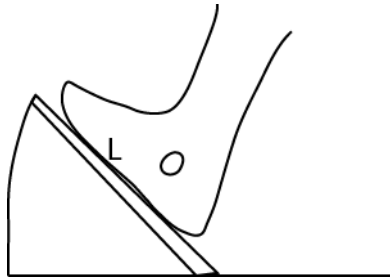
27. Explain why light is seen before sound is heard during lightening.

Light travels faster than sound

28. When drawing water from a borehole, why is the handle led far from the fulcrum?

To use less effort

29. The diagram above shows the foot of a driver accelerating the car. Indicate on it with letter L, the position of the load



30. State any one way in which the First Aid for a cut is different from First Aid for a burn.

First Aid for cut is to stop bleeding with a bandage while the first aid for a burn is to reduce pain by putting in cold water

31. Why do you wash your hands before eating?

To remove germs

32. State one reason one reason why it is not advisable to have many children.

It may be difficult to care for them

33. Why shouldn't people with AIDS be isolated?

**Because AIDS is not spread by air or contact
Because AIDS victim required care.**

34. Name the difference between pit latrine and VIP latrine.

VIP latrine has a vent pipe latrine lacks a vent pipe.

35. Apart from the type of soil, name one factor to consider when constructing a house.

Nearness to social services

Nearness to water

Sources of building materials

36. Mention one reason why drinking water should be boiled

To kill germs

37. Name the vaccine which is given to a child at birth.

Polio vaccine

BCG

38. What does the vaccine mentioned in number 37 protect the child against?

- **Polio protects the child against polio**
- **BCG Vaccine protects the child against tuberculosis**

39. Mention one of the service of public Health Care (PHC)

Sanitation

Immunization

Family planning

Provision of essential drugs

Personal hygiene.

40. Why should we bathe daily?

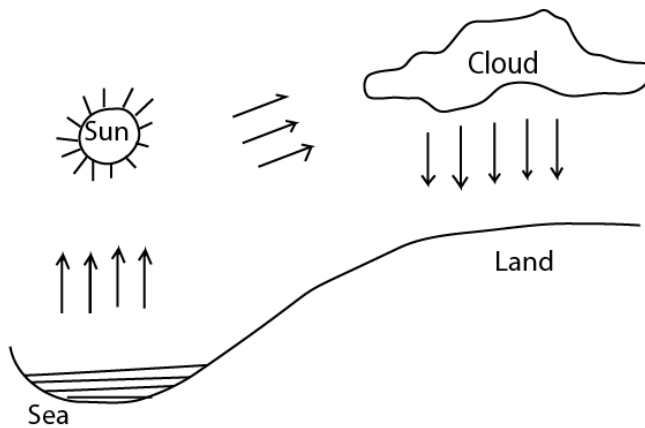
To remove germs from our bodies

To remove bad odor.

To prevent skin infections

SECTION B

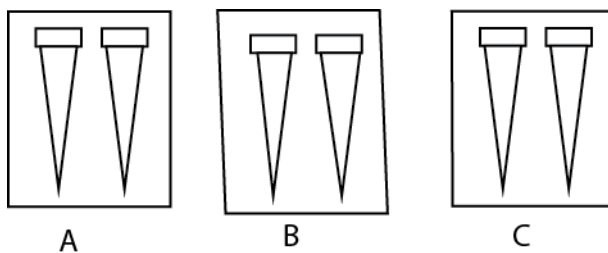
The diagram below shows the cycle. Use it to answer 41



41. Describe how rain is formed.

When a water body is heated by the sun, evaporation occurs, the vapour rises, and cool to form rain

42. The diagram below shows two nails under three different conditions



In A – the nails were wrapped in clean wet cloth

In B – the nails were wrapped in clean dry cloth

In C- the nails were smeared with oil and then wrapped in a clean wet cloth.

(a) In which case did the nail rust?

Case A

(b) What is the importance of smearing with oil

To cut off oxygen and water from the nail

(c) Name two conditions necessary for rusting.

Oxygen not air

water

43. (a) Name three activities performed when preparing a school garden

Clearing bush

Digging

Sowing

Pruning

Spraying

Or watering

(b) why is a school garden fenced

The prevent pests like cow, goats

To prevent thieves.

44. (a) State two types of chicken which are kept for special purpose.

Broilers

Layers

Dual purpose

(b) name the purpose of keeping one of the type mentioned in (a) above.

Broilers for meat

Layers for eggs

Dual purpose: for both eggs and meat

(c) Name one advantage of keeping local breeds of chicken.

They are resistant to disease

They are easy to feed

45. (a) Mention the structure that joins a bone to a muscle

Tendon

(b) give one example of the following types of joints

(i) hinge joint: **knee, elbow**

(ii) ball and socket joint: **hip joint and shoulder joint**

(c) Name the food substance that help in formation of strong bones.

Calcium and phosphorus

46. (a) Name one change that occur during adolescence in

- (i) Male: - pubic hairs
- Deep voice

- (ii) Female - pubic hairs
- smooth voice
- growth of breasts

(b) State two factors you consider when choosing a partner for marriage.

Attractiveness

Behavior

Education

Religion

culture

47. (a) what is STDS?

Sexually transmitted diseases

(b) Give two examples of STDS.

Gonorrhea

Syphilis

candidiasis

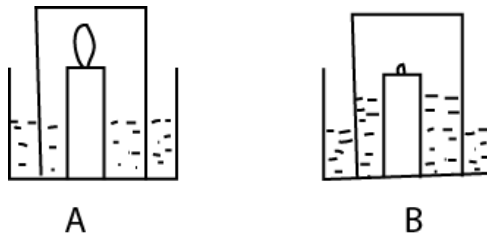
(C) State one way in which STDs can be controlled.

Abstinence

Being faithful to some one's partner

Use of a condom

48. The diagram below shows two stages in an experiment. Use it to answer the questions that follow.



(a) Why did the candle flame go off in B?

Oxygen was used up

(b) What happened there after?

Water level rose

(c) Name the gas inside when the candle flame goes off.

Carbon dioxide

(d) What is the air used for?

**Photosynthesis
respiration**

49. Use the animals below to answer questions that follow.

Mouse, chameleon, frog, python

(a) Which two animals can be grouped together?

Chameleon and python

(b) Give a reason for your answer in (a) above.

They are reptiles

(c) Which animal has a different form of reproduction from others?

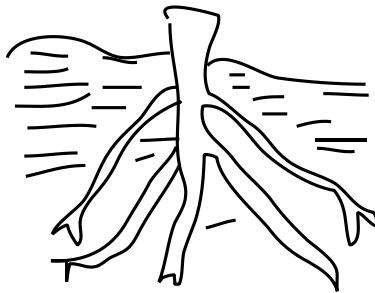
Mouse gives birth to young ones the rest lay eggs

(d) In which environment do you find the frog?

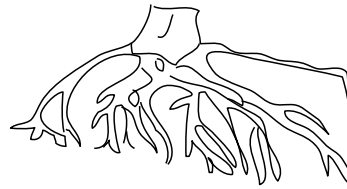
Wet and cold environment

50. (a) in the space below, draw an example of:

(i) A tap root system



(ii) A fibrous root system

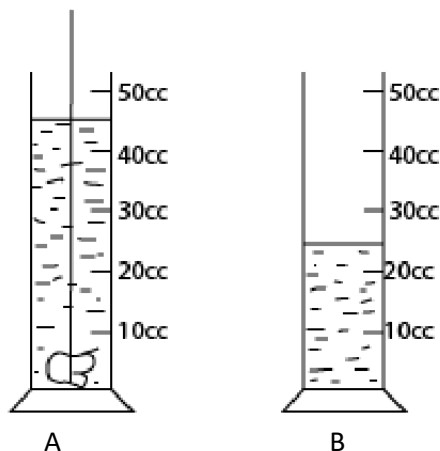


(b) give one use of roots to a plant and one use to man.

Uses of the roots to plants are: absorption of water and mineral salts, anchorage of the plant, storage of food such as cassava roots

Uses of roots to man: food, medicine

51. Use the diagram below to answer the questions that follow



- (a) What is the volume of the stone?

$$45 - 25 = 20\text{cc}$$

- (b) Calculate the density of the stone if its mass is 450g.

$$\text{Density} = \frac{\text{mass}}{\text{volume}} = \frac{450}{20} = 22.5\text{g/cc}$$

52. Uganda electricity board generates its electricity at Jinja.

- (a) How does electricity reach a consumer in Mbale?

It is transmitted by wires

- (b) Give two uses of electricity,

Provide light for seeing

Provide eat for cooking

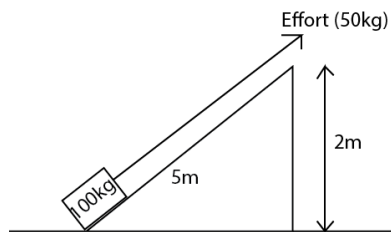
Provide heat for ironing

- (c) Name the causes of short circuit.

Uninsulated wires

Poor insulation

53. The diagram below shows a machine used to lift a load using an effort of 50kg



- (a) Name the machine.

Inclined plane

- (b) What distance does the load and effort move through?

Load moves 2m while effort 5m

- (c) How can you use less than 50kg to pull the load?

Reduce the angle of inclination

54. (a) mention two reasons why people drink alcohol.

To relax

To forget problem

To get sleep

For peer pressure

Because of frustration

- (b) Name one effect of drinking alcohol has on

- (a) An individual

May cause brain damage

May cause liver damage

- (b) A family

- **Family neglect**

- **Loss of income**

55. (a) state two conditions that are likely to a family ill?
- (i) **poor sanitation in a home**
 - (ii) **eating contaminated food**
 - (iii) **Poor Family hygiene**
- (b) Mention two diseases that people who live in unhealthy conditions can suffer from.
- (i) **cholera**
 - (ii) **typhoid**
 - (iii) **dysentery**

END