

Index No:

UGANDA NATIONAL EXAMINATION BOARD PRIMARY LEAVING EXAMINATION

2006

MATHEMATICS



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Candidate's Name									

Candidate's signature.....

District Name

Read the following instructions carefully

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- 1. This paper has two sections A and B.
- 2. All the working. For both section A and B must be shown in the spaces provided
- 3. All working must be done using a blue or black ball Point pen or fountain pen Diagram should be drawn in pencil
- 4. No calculators are allowed in the examination room.
- 5. Unnecessary change of work may lead to loss of marks
- 6. Any hand writing that cannot easily be read may lead to loss of marks
- 7. Do not fill anything in the boxes indicated:

"For examiners use only". And those inside the question paper

FOR EXAMINERS					
USE ONLY					
No	MARKS	EXR'S			
		NO.			
1-5					
6-10					
11-15					
16-20					
21-22					
23-24					
25-26					
27-28					
29-30					
31-32					
TOTAL					

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Turn over

SECTION A

(Questions 1 to 40 carry one mark each)

1. What good health habit should be practiced after visiting a latrine or toilet?

Wash hands with soap and water

2. Give any one way in which animals are important during the process of photosynthesis.

Animal produce carbon dioxide that is a raw material in photosynthesis

3. What form of energy does a falling stone have before it reaches the ground?

The stone has kinetic energy due to motion

4. State ant one reason why some plants climb others.

To obtain support to reach light.

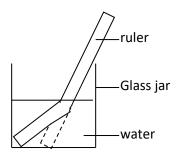
5. Give any one common use of sand at home.

Sand is used for building

For washing utensils

The diagram below shows a glass with water and a straight ruler in it

Use it to answer question 6



6. What causes the ruler to appear bent?

The ruler appears bent due to refraction of light

7. What **First** Aid would be given to Jamada who has burnt his fingers with a hot metal?

Place the fingers in cold water

8. Give any one practice that can help to control the spreads of cholera in a school.

Eating hot food

Proper disposal of wastes

Washing hands after visiting the toilets

Early treatment

9. Give any one reason why people plant trees around their houses.

Trees act as wind breakers

Trees produce fruits

Trees are used for beauty

Trees provide firewood

Trees provide medicine

10. Apart from the skin and lungs name any one other execratory organ.

Kidney

11. Give any one way in which the breathing of a housefly is different from that of a rat.

Insects breathes through spiracles whereas rat breath through lungs.

12. Give any one way in which soil is important to a plant.

Soil provide anchorage

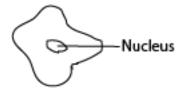
Soil provides water to the plant

Soil provides nutrients to the plant

13. Why is a wet cloth put on the body of a person with fever?

To reduce temperature

The diagram is of a blood cell. Use it to answer questions 14 and 15



14. What type of blood cell is shown in the diagram?

White blood cell 15. Give a reason for your answer in question 14 above. Has an irregular shape and nucleus 16. Give any one reason why plants are grouped among living things. They grow They respire They feed They respond to the stimulus They reproduce They excrete 17. Give any one example of a leguminous crop. Soya peas, ground nuts, beans, 18. How does a snail protect itself from its enemies? By hiding in its shell 19. Give any one disadvantage of keeping poultry on a free-range system. Birds can easily catch diseases Bird can easily be eaten or stolen One cannot determine how much they have eaten 20. Give any one reason why air is considered to be matter It has weight It occupies space 21. Give any one reason why people like the brick makers, need to feed on more carbohydrates To provide energy

22. Which part of air is necessary for burning to take place?

Oxygen

23. Give the meaning of drug abuse.

Drug abuse is the habitual taking of addictive or illegal drugs

24. State ant one way of making a magnet

By using single or double stroke method

By using electrical method

25. Which part of the human body does Trachoma attack?

eyes

26. Suggest any one way in which the use of solar energy helps in the protest of the environment.

It reduces the cutting down trees

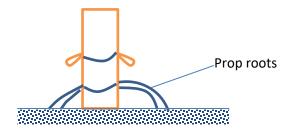
27. Why is a Ventilated Improved Pit latrine left without a cover?

To allow free flow of air through the system

28. How do some people become passive smokers?

By breathing air that contain cigarette smoke from a person smoking.

29. Draw a prop root system in the space provided below.



30. Name any one crop with a root system similar to the one you have drawn above

Rice, wheat, sorghum, millet, maize, sugar cane

31. What causes an echo?

Reflection of sound waves

32. Why does a stone sink when it is put in a bucket full of water?

A stone is denser than water or water is less dense than the stone

33. Give any one way through which worms enter our bodies.By eating half cooked meatBy moving in dirty places with bare feet

34. Mention the instrument used to measure the temperature of a human body.

Clinical thermometer

35. What is the process by which seeds grow into seeding?

Seed germination

36. State any one use of an ax in a home.

By eating infected, dirty fruits

Spiting fire wood

Cutting tree into pieces

37. Give any one reason why white objects are seen easily even at a distance.

They reflect light

38. Give any one way in which people benefit from bees.

They get honey

They get bees wax

Bees pollinate our crops

39. Which bone in the human skeleton protects the brain?

The skull

40. Give any one characteristic which is common in all the invertebrates.

They possess a vertebral column,

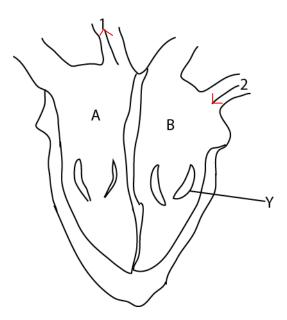
They have internal skeleton

SECTION B

(Questions 41 to 55 carry four marks each)

- 41. John fell off a bicycle and broke his thigh bone.
- (a) Name the injury which john got. A fracture
- (b) State any two ways in which john can be given First Aid.
 - (i) apply a splint at the broken area
 - (ii) give a pain killer
- (c) What is the importance of giving first Aid to a person like John?
 - Reduce pain
 - Prevent injury from worsening
- 42. The diagram shows a human heart.

Use to answer the questions that follow.



(a) What is the function of the part marked with letter \mathbf{Y} ?

Prevent backflow of blood

(b) Give the difference between the blood in the regions marked with letters **A** and **B**

Blood in A is deoxygenated while that in B contains oxygenated blood

(c) Put arrows on the short lines marked with numbers 1 and 2 to show the direction of the movement of blood. 43. (a) Name any two part of a plant which provide human beings with food. (i) Fruits e.g. mangoes (ii) roots e.g. cassava, carrot (iii) Stem e.g. sugar cane (iv) Leaves e.g. cabbage (b) Give any two ways in which plants benefits from animals. (i) get carbon dioxide (ii) nitrogen from excreta (iii) When the animal die add to plant manure 44. Below is a list of activities carried out by people in the environment. Use the list to answer the question that follow. -Fishing -Producing a lot of smoke in the factories -Draining swamps -Throwing polythene bags on the soil. -Crop rotation. (a) Which activity is likely to decrease the amount of rainfall? **Draining swamps** (b) Which activity is likely to spoil the fertility of the soil? Throwing polythene bags on the soil (c) Which activity is good for controlling crop diseases? **Crop rotation**

(d) Which activity is likely to cause pollution of the atmosphere?

Producing a lot of smoke in the factories

45. The table below shows different group of vertebrates

Use it to answer the question that follow

A	В	С
Birds	Mammals	Amphibians

- (a) to which group of vertebrates does each of the following belong?
- (i) Bat: mammals
- (ii) Frog: amphibian
- (b) Give any way in which the reproduction of animals in group ${\bf B}$ is different from that of animals in group ${\bf C}$

Animals in group B produce younger ones alive while bird lay eggs

(c) Give any one other group of vertebrate which is missing from the table.

Reptile

46(a) What is the importance of taking children for immunization?

To improve their immunity against the killer diseases such as measles, tetanus.

(b) Which vaccine is given to the child in the mouth at birth?

Polio vaccine

- (c) Give any two ways in which the child's health card is important to the parents
 - (i) Give information of the birth day of the child
 - (ii) Enable the child to monitor child's growth
 - (iii) Enables the parent to know the when to immunize
- 47. (a) Give any two reasons why a mushroom is not a plant.
 - (i) they lack chlorophyll
 - (ii) the do not make their food.
- (b) Give any two plants that reproduce in the same way like a mushroom.
- (i) ferns
- (ii) mosses

48. The diagram below shows wooden poles with electricity wires.

Use it to answer the question that follow



(a) State any one reason why the wires are loosely fixed.

To allow room for contraction and expansion of the wires

(b) What would happen to the wires if they were tightly fixed?

They would break when they are contracted on cold days.

(c) Give any one reason why wooden poles are usually used to carry electricity.

To protect people and animals from electroshock when they touch the poles.

(d) Why are the wires placed very high up?

To reduce theft of the wires

To prevent children reaching up the wire

- 49. (a) Give any one part the human body where each of the following joint is found
- (i) Ball and socket joint: shoulder and hip
- (ii) Hinge joint: elbow and knee
- (iii) Gliding joint: wrist
- (b) Which one of the above joint can make an all –round movement?

Ball and socket joint

50 (a) What is a chemical change?

This is an irreversible change from one form of a substance to another requiring or involving heat and/or light

(b) Give any one example of a chemical change.

Rusting of iron

Burning of firewood

(c) When water change changes:	ge to ice the process is called freezing. Name the process in each of the following	
(i) Ice to water	melting	
(ii) Steam to water	er: evaporation	
51. (a) Give any one re	eason why people include proteins in the diet.	
To grow well		
To repair worn	out tissue	
(b) What is the import	ance of fruit in a diet?	
Provide vitan	nins including vitamin C	
(c) State any two ways	s of protecting children against malnutrition.	
Provide balaı	nce diet	
Give food in	time	
52. The list below give	es some of the methods farmer use to control soil erosion	
Use it to answer the q	uestions that follow	
-Terracing		
-Planting trees		
- Contour ploughing		
-Mulching		
Which two of the meth	hods given above are best for?	
(a) Land with a gentle	slope?	
(i) Planting trees		
(ii) Mulching		
(b) Land with a steep s	slope?	
(i) Terracing		
(ii) Contour plou	ghing	
	<u></u>	_

- 53. Give any one sign you would see on cattle suffering from the following diseases:
- (a) Anthrax:

Blood sports in milk

Running nose

Discharge a dark bloody stool

(b) East coast fever

Loss of weight

Laziness

Diarrhea

High body fever

(c) Nagana

Drossiness

Loss of weight

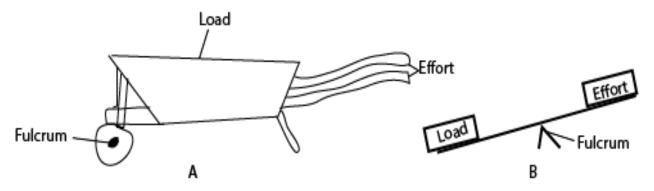
(d) Foot and mouth

Sore foot

Drooling from the mouth

54. The diagram below shows two simple machines

use it to answer the question that follow



(a) Name the machine marked with the letter **A**

Wheel burrow

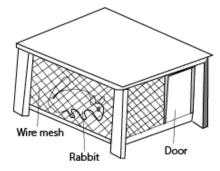
- (b) State the class of lever to which each of the above machines belongs:
- (i) machine A: second class lever
- (ii) machine B: first class lever
- (c) Give any one example of a machine which works in the same way as the machine marked with letter **B**

Pair of scissor

Priers

55. The diagram below shows a rabbit house

Use it to answer the question that follow



(a) Give any one reason why the rabbit house is raised above the ground.

Prevent water from wetting the flow

Prevent predators attacking the rabbit.

(b) Give any two reasons why wires mesh is used in building a rabbit house.

Prevent the rabbit from getting lost

Protect the rabbit from predators

For good aeration

(c) State ay one thing that should be provided to the rabbit in the house.

Food (carrot, cabbage, maize)