



Dr. Bbosa Science

UGANDA NATIONAL EXAMINATION BOARD

PRIMARY LEAVING EXAMINATION

2006

MATHEMATICS

Time allowed: 2 hours 30 minutes



Index No:

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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<br>USE ONLY |       |              |
|---------------------------|-------|--------------|
| No                        | MARKS | EXR'S<br>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.**

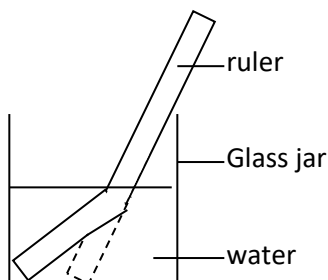
5. Give any one common use of sand at home.

**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 excretory 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 any 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 protection of the environment.

It reduces the cutting down of trees

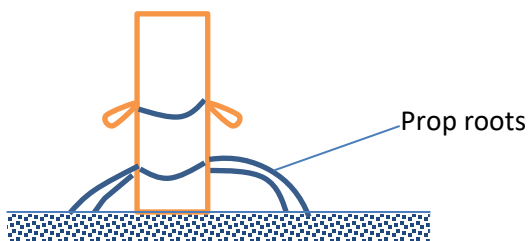
27. Why is a Ventilated Improved Pit latrine left without a cover?

To allow free flow of air through the system

28. How do some people become passive smokers?

By breathing air that contains 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 meat**

**By moving in dirty places with bare feet**

**By eating infected, dirty fruits**

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 seedling?

**Seed germination**

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

**Splitting 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.

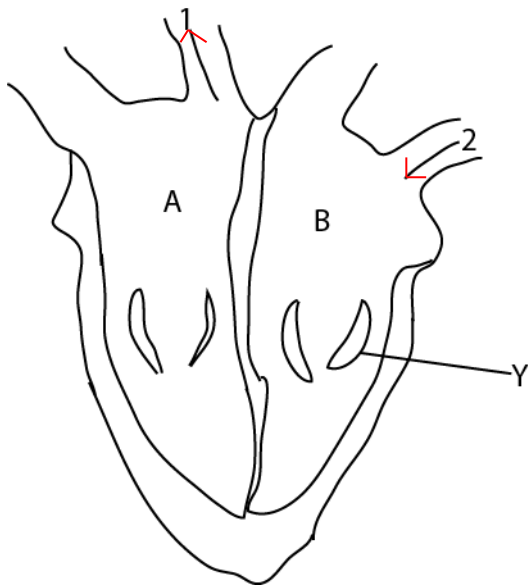
- (i) apply a splint at the broken area
- (ii) give a pain killer

(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 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     | B       | C          |
|-------|---------|------------|
| 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 B is different from that of animals in group 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) they 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 to ice the process is called freezing. Name the process in each of the following changes:

(i) Ice to water      **melting**

(ii) Steam to water: **evaporation**

51. (a) Give any one reason why people include proteins in the diet.

**To grow well**

**To repair worn out tissue**

(b) What is the importance of fruit in a diet?

**Provide vitamins including vitamin C**

(c) State any two ways of protecting children against malnutrition.

**Provide balance diet**

**Give food in time**

52. The list below gives some of the methods farmer use to control soil erosion

*Use it to answer the questions that follow*

-Terracing

-Planting trees

- Contour ploughing

-Mulching

Which two of the methods given above are best for?

(a) Land with a gentle slope?

**(i) Planting trees**

**(ii) Mulching**

(b) Land with a steep slope?

**(i) Terracing**

**(ii) Contour ploughing**



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**

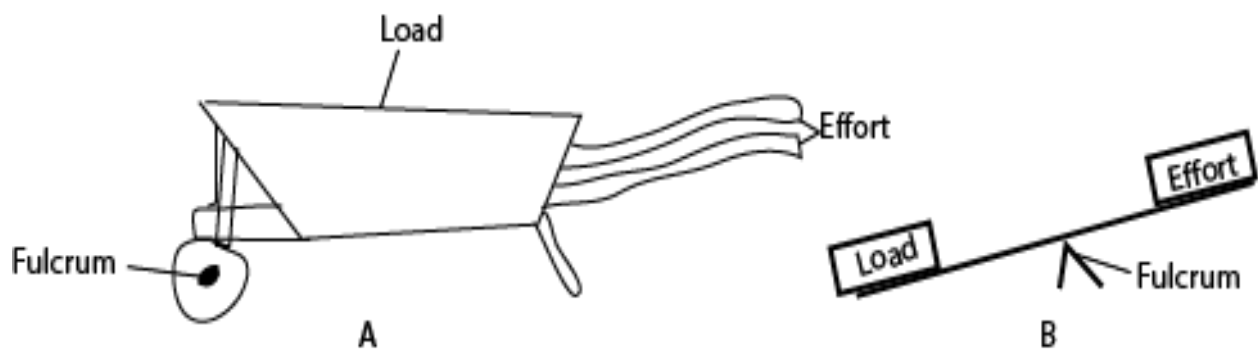
(d) Foot and mouth

**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**

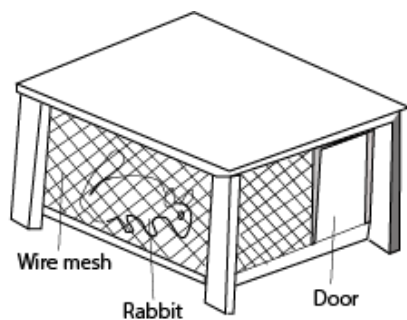
(c) Give any one example of a machine which works in the same way as the machine marked with letter B

**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 floor**

**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 any one thing that should be provided to the rabbit in the house.

Food (carrot, cabbage, maize)

**END**