

UGANDA NATIONAL EXAMINATION BOARD

PRIMARY LEAVING EXAMINATION

2003

BASIC SCIENCE AND HEALTH EDUCATION

Time allowed: 2hours 30 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.
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		
Qn.No	MAR KS	EXR'S NO.
1-5		
6-10		
11-15		
16-20		
21-22		
23-24		
25-26		
27-28		
29-30		
31-32		
TOTAL		

## SECTION A

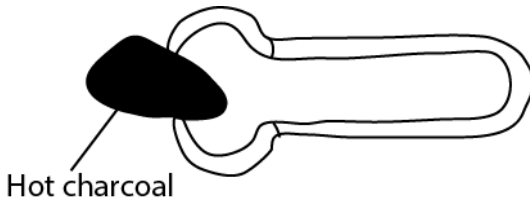
1. What kind of change take place when ice melts to form water?

.....  
.....

2. Give any one reason why farmers prefer keeping cross-breed cattle other than the exotic ones.

.....  
.....

***The diagram below is of a simple machine. use it to answer questions 3 and 4***



3. Indicate with letter E the position of the effort.

4. What class of lever is this machine?

.....  
.....

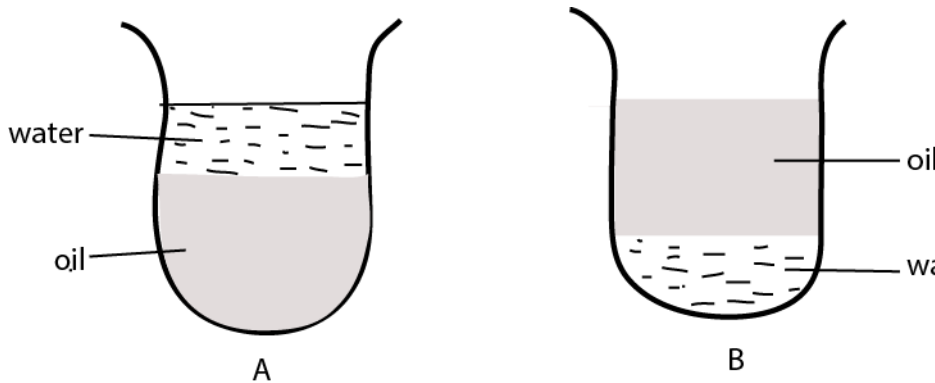
5. What is the importance of leaves to a plant?

.....  
.....

6. In which way is the breathing of crocodile different from that of a fish?

.....  
.....

7. The same amount of oil and water were poured into the container shown in A below beginning with oil and then water. When the container was checked after sometime ,oil was found on top of the water as shown in B .Use the diagram to answer the question that follow:



Why did oil come on top of the water?

.....  
 .....

8. Why is it a bad habit to cut finger nails using teeth?

.....  
 .....

9. Give any one problem that may be faced by a school girl who becomes pregnant.

.....  
 .....

10. Give any one reason why a latrine should be 10 metres away from the living house.

.....  
 .....

11. Give any one practice in a home that would help in the control of malaria.

.....  
12 Apart from teeth, which other weapon does a dog use for protection?

.....

13. What is the duty of the queen bee in a hive?

.....  
.....

15. How are animals different from plants in the way they get food?

.....  
.....

16. Give any one reason why a patient should take a drug only when it is prescribed by a medical person.

.....  
.....

17. State any one agent responsible for dispersing mango seeds

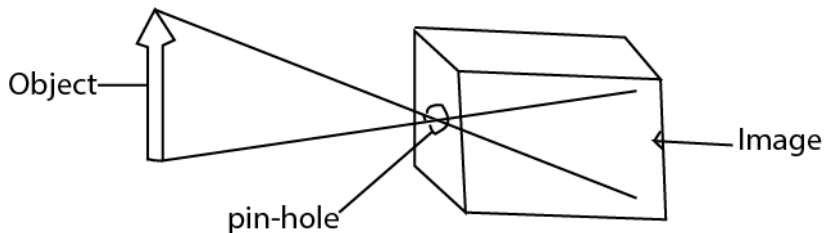
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.....

18. In the space below, draw an example of a compound fracture

19. Whenever Bbosa runs on a sunny day, he sweats. What is the importance of sweating to his body?

.....  
.....

20. The below shows a pin-hole camera with an object. The image been left out. Complete the diagram drawing the image in the pin-hole camera.



21. Which organ in your body helps you to find out whether something is sweet or bitter?

.....  
.....

22. Give the general name of blood vessels which carry blood away from the heart to various parts of the body.

.....  
.....

23. Give any one use of cow-dung to farmers.

.....  
.....

24. Give any one reason why it is not advisable to breath through the mouth.

.....

25. Why does blood go to the kidneys during circulation?

.....  
.....

26. At what time of the day are shadows shortest?

.....  
.....

27. Why do tyres of cars wear out more quickly on tarmac roads than marram roads?

.....  
.....

28. Give any one other system of poultry farming, apart from a free-range system.

.....  
.....

29. In which class of animals do you put a tortoise and as lizard?

.....  
.....

30. Our school pit latrine smells a lot and is always full of flies. What measures can we take to prevent this situation?

.....  
.....

**Susan shouted loudly in a big house ,as she shouted ,she heard another similar sound.**

***Answer the questions 31 and 32 using this information.***

31. Give the name of the similar sound Susan heard after shouting.

.....

32. How was the sound you have named in question 31 formed?

.....  
.....

33. Give any one factor to be considered when choosing a site to build a home, apart from security, raised nearness to the main road and availability of water.

.....

34. Give any one state of matter.

.....  
.....

35. Why is transpiration important in green plants

.....  
.....

36. State any one effect of air pollution on people.

.....

**37. In the diagram below a candle was burning as shown in A then it was covered with a tin as shown in B. after sometimes the candle stopped burning.**

***Use the diagram to answer the question below***



Why did the candle flame in B go off after sometime?

.....  
.....

38. Give any one function of a spinal cord in human body.

.....

39. What type of energy do you have when you are seated in the class?

.....

40. Suggest one reason why an individual should promote personal hygiene?

.....  
.....

**SECTION B**

41. (a) What is a crop pest?

.....  
.....

(b) Give any one example of a crop pest.

.....

(c) Apart from spraying with chemical, give other two ways of controlling crop pests.

(i)

.....

(ii)

.....

42.(a)Give any one habit that may lead a person to catch AIDS

.....

(b) Suggest the best way of controlling the spread of AIDS.

.....

(c) Give any two sign that shows that n individual is suffering from AIDS.

.....  
.....

43. (a) What is the use of a clinical thermometer?

.....

(b) Give any one reason why there is a bend in the tube of a clinical thermometers.

.....



(c) Which liquid is mainly used in thermometers?

.....

(d) Why is the liquid you have named used instead of other liquids?

.....  
.....

44. (a) Name any one disease that is immunized against at birth.

.....

(b) Which site on the body is measles immunization usually given?

.....

(c) Why are pregnant women immunized against tetanus?

.....  
.....

(d) How does tetanus get into our bodies?

.....

45. (a) Give one process in plants in which:

(i) oxygen is used,

.....

(ii) carbon dioxide is used.

.....

(b) What useful by-product in (a) above?

.....  
.....

(c) Give any other natural process that uses oxygen

.....  
.....

46. show the difference between the first class lever and the second -class lever by drawing and labeling the two diagrams.

(a)First -class lever

(b)Second-class lever

47. In which one way is the function of the skin similar to that of lungs?

.....  
.....

(b) Give an example of a practice which will prevent the skin to function properly.

.....

(c) Suggest any two ways in which the proper functioning of the skins can be promoted.

(i)

.....

(ii)

.....

50. (a) What type of electricity is generated at Jinja?

.....

(b) What is the difference between solar ant thermal electricity?

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.....  
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(c) Give any two advantage of solar electricity over the thermal electricity.

(i)

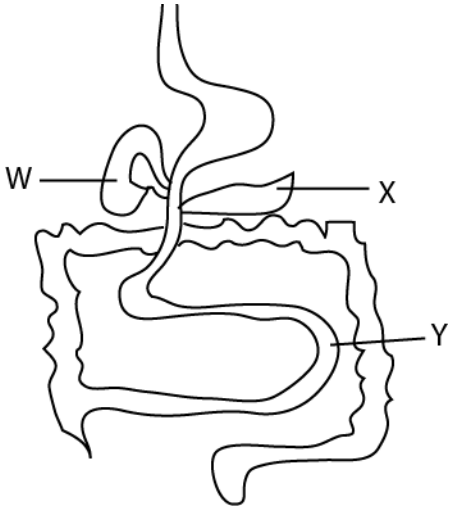
.....  
.....

(ii)

.....  
.....

51. The diagram below shows the alimentary canal of the human being

***Use it to answer that question that follow.***



(a) Name the part marked:

**W**.....

**X**.....

(b) State any one process that takes place labelled **Y**

.....

(c) Give one function of the organ labelled **X**

.....

52. The diagram below shows a ray of light striking the mirror

**Study it and answer question that follow**



(a) Name the part marked **C**

.....  
.....

(b) Put an arrow on line D to show the diagram of the ray of light

(c) If angle  $b=40^\circ$ , what is the size of angle **a**?

(d) Give a reason for your answer in (c) above.

.....  
.....  
.....  
.....

53.(a) Which vector spreads  
dysentery?.....

.....

(b) Give any two ways of controlling dysentery in our homes

(i)

.....  
.....  
.....  
.....

(ii)

.....  
.....  
.....  
.....

(c ) Why should a person suffering from dysentery be given oral Rehydration salts(ORS)?

.....  
.....  
.....

54. study the table below and answer the question that follow

<b>LIST A</b>	<b>LIST B</b>
Tilapia Frog Crocodile Dove	Rat Goat Lion whale

(a) What is the similarity in the way animals in list **A** reproduce?

.....  
.....  
.....

(b) To which class of animals do those in list **B** belong?

.....  
.....  
.....

(c ) In which way is tilapia in list A similar to a whale in list **B** ?

.....  
.....  
.....

(d) What is common about the animals in list **A** and list **B**?

.....  
.....  
.....

55. (a) Draw bean seed and show: (i) a scar

(ii) a micropyle.

(b) Draw a split bean seed and show: (i) a plumule

(ii) a radical

**END**