**UGANDA NATIONAL EXAMINATION BOARD**

**PRIMARY LEAVING EXAMINATION**

Dr. Bbosa Science

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**2003**

**MATHEMATICS**

**Time allowed: 2hours 30 minutes**

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**Index No:**

**Candidate’s Name……………………………………………………………………………………..**

**Candidate’s signature…………………………………………………………………………………..**

**District Name…………………………………………………………………………………………………**

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| **FOR EXAMINERS**  **USE ONLY** | | |
| **Qn.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** |  |  |

**Read the following instructions carefully**

**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**

1. **No calculators are allowed in the examination room.**
2. **Unnecessary change of work may lead to loss of marks**
3. **Any hand writing that cannot easily be read may lead to loss of marks**
4. **Do not fill anything in the boxes indicated:**

**“For examiners use only”. And those inside the question paper**

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**Turn over**

SECTION A

1. Why does a bedbug produce a very bad smell when it is touched?

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2. Give any one reason why a child`s diet should more proteins than that of an adult.

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3. Give any one way in which flowers are important to a plant.

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4. Give one sign which is common between the people suffering from tuberculosis (TB) and those from AIDS.

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5. Give any one example of an animals which an amphibian.

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6. Give any one characteristic which is common to all insects.

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7. Why does sugar disappear when it is mixed with water?

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8. Which property of air demonstrated when air is pumped into a ball, and the ball becomes bigger?

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9. How is the absence of iodine harmful to our health?

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10. Explain why sandy soil cannot retain water like clay soil.

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11. What is the importance of red blood cells in the body?

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12. Give any one characteristic of an image formed in a pin hole camera.

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13. Which of the following animals: fish, frog, lizard, rat and snail is warm blooded?

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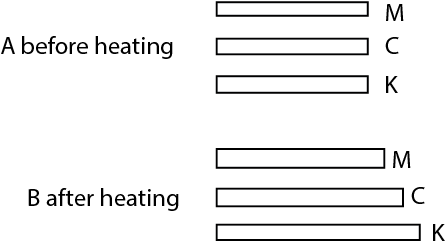
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14. Why is proper disposal of refuse important in a home?

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15. The diagram below are of three types of metals. Study them and answer the question that follows



Explain the cause of the difference in length after they have been heated.

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16. in the space provide, draw a convex lens

17. Why do you think that seeds of an orange are likely to be dispersed by a person?

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18. When water is heated it changes into water vapour .What is this process called?

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19. Apart from using more energy, name one other disadvantage of friction.

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20.What is the importance of bees to plant?

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21. Explain the difference between temperature and heat.

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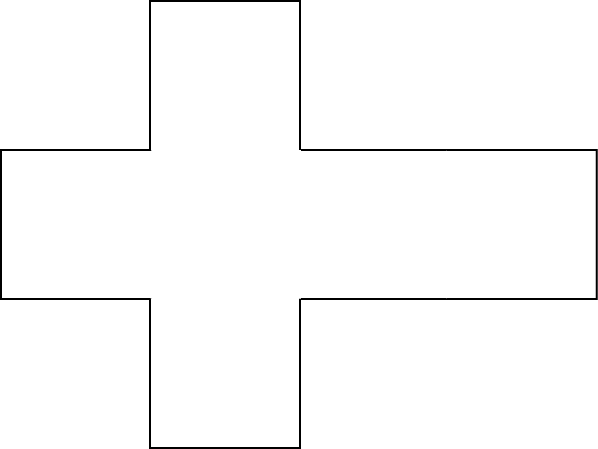
22. What is the disadvantage of having anthills near gardens?

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……………………………………………………………………………………………………………………………………………………………….

23. The diagram below shows a certain shape of an object, which has been dismantled.

**Study it and answer the question that follows.**



What shape can you get that diagram if folded along dotted lines?

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24. What First Aid would you give to a person whose finger has been burnt by fire?

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25. Why is it possible to control the spread of cattle diseases in a paddock system?

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26. Name any cereal which is used as food.

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27. Mukasa has a pool of water in this compound and he has a problem of mosquitoes. What advice would you give him to reduce the number of mosquitoes without praying the pool?

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28. Why s it important to bathe with soap?

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29. In the space provide below ,draw a compound leaf.

30. Vultures, kites and crows were found feeding on a dead cow. What group of birds are these?

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31. Give any one special characteristics of the air we breath out.

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32. Give anyone way in which a human skull is important.

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33. Give an example of a hinge joint in a human body.

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34. Give any one sign of dehydrated person.

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35. Give an example of a plant which grows from stem cuttings.

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36. Explain what ante-natal care is.

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37. Suggest any one way you would help one to avoid drug dependency.

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38. Give any one reason why parents should take their children for immunization.

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39. On a hot day, a boy ran 1500 metres but there was not a lot of sweat on his face. Immediately he came under the shade of a tree, the whole face was full of sweat .Explain the reason for the sweating under the shade.

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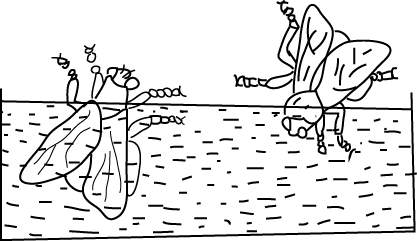
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40. Why are windows put at a lower than the ventilators?

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**SECTION B**

41. In the diagram below, two insects were placed in water as shown.

(a) (i) which insect died?

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(ii) Give a reason for your answer in (a) (i) above.

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(b) In which way are the insects shown in the diagram harmful to man?

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(c) Give any other insect that causes the harm similar to that in (b) above.

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42. (a) After it has rained, earthworm come out of their holes. Why do they come out?

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(b) Give two reasons why an earthworm is very important to a farmer.

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……………………………………………………………………………………………………………………………………………………………….

(c ) Why does worm die if oil is poured on its body?

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43. Give any four ways in which fish can be preserved.

(a)………………………………………………………………………………………………………………………………………………………………

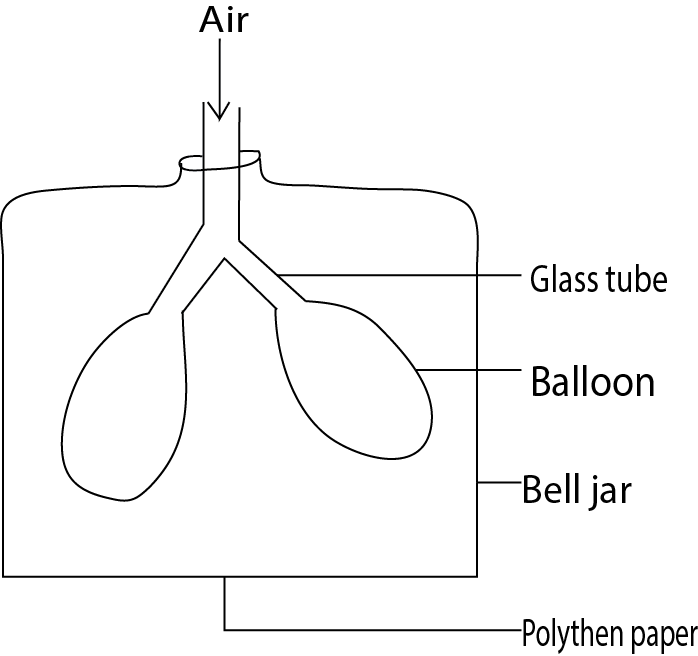
(b)………………………………………………………………………………………………………………………………………………………….

(c)……………………………………………………………………………………………………………………………………………………………

(d)………………………………………………………………………………………………………………………………………………………….

44. The diagram below shows the way n which one of the systems of the human body

Works. Use it to answer the question that follow



1. Name the system.

…………………………………………………………………………………………………………………………………………………………………

(b) What does a balloon represents?

…………………………………………………………………………………………………………………………………………………………………

(c) What does the polythene paper represent?

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(d) What would happen to the polythene paper if air filled the balloon?

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45 (a) some bacteria are useful and others are harmful. Give an example of each.

1. Useful bacteria

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…………………………………………………………………………………………………………………………………………………………………

1. Harmful bacteria

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…………………………………………………………………………………………………………………………………………………………………

1. Give any two examples of when bacteria are useful to man

…………………………………………………………………………………………………………………………………………………………………

…………………………………………………………………………………………………………………………………………………………………

46. The diagrams below are of pests. Use them to answer questions (a) and (b) below

A

B

1. Name the pests:
2. A ………………………………………………………………………………………………………………………………………….
3. B …………………………………………………………………………………………………………………………………………….
4. What is the disadvantage of the above insects to a farmer?

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47. Match items of group A with those of group B by completing the table below

A B

Heart Sensory organ

Kidney memory

Skin carbon dioxide

Lungs circulation

Brain urine

Complete the table below

|  |  |
| --- | --- |
| A | B |
| 1. …………………………………………………………… 2. Skin 3. …………………………………………………………… 4. Lung | Circulation  …………………………………………………….  Memory  ……………………………………………… |

48 (a) Name materials used to measure the volume of an irregular objects

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1. How would you get the mass of an object is its density is 6g/cc and the volume is 10cc.

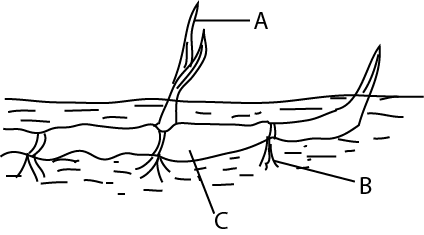
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49. The diagram below shows an underground stem.



1. State the type of underground stem shown in the diagram

…………………………………………………………………………………………………………………………………………………………………

1. Suggest the functions of the parts labelled A, B and C
2. …………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………
3. …………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………
4. …………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

50. (a) Name two practices that lead to the destruction of wet lands.

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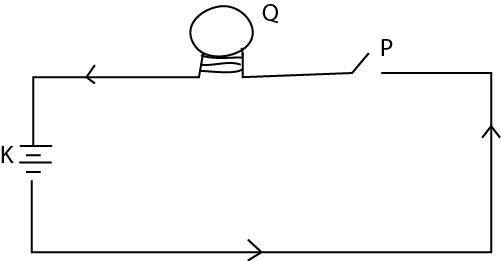
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1. What is the difference between contour ploughing and mulching?

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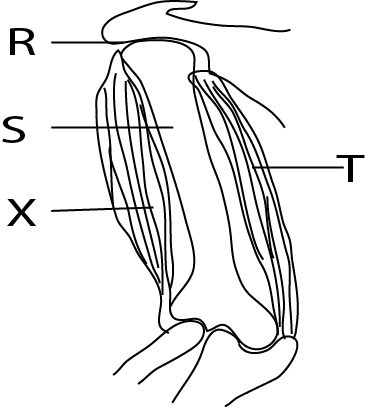
1. How are the two practices in (b) similar?

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

51. the diagram below shows an electric circuit. Use it to answer the questions that follow.

1. Name part K …………………………………………………………………………………………………………………………
2. Name part P …………………………………………………………………………………………………………………………
3. Give the type of energy that are produces at Q when P is closed.

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

52. The diagram below shows the arm. Study it and answer the questions that follow.

1. Name the Joint labelled R ………………………………………………………………………………………………………..
2. Name the bone labelled S …………………………………………………………………………………………………………
3. What happens to muscles T and X when the fore arm is raised?

T …………………………………………………………………………………………………………………………………………………

X …………………………………………………………………………………………………………………………………………

53. As a pupil in a school, you are of the school health committee. What do you expect to do to make health improve in the school?

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54. (a) in the list of objects: rabbit bacteria, sun, pig and plant.

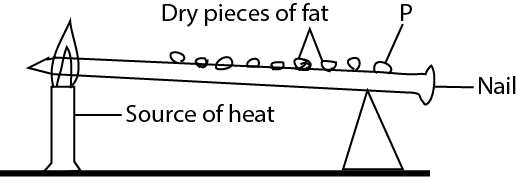
(i) Name a producer ………………………………………………………………………………………………………………….

(ii) Name a primary consumer…………………………………………………………………………………………………….

1. What is the role of bacteria from the above list? ………………………………………………………………..
2. what is the difference between a primary consumer and a secondary consumer?

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

55. The diagram below is of an experiment performed by a p& class. Study it and answer the question that follow.



1. what is the experiment about?

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1. What is the importance of fats pieces

……………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

1. What will happen to piece P after sometimes?

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1. Give a reason for your answer in (c).

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END