



Dr. Bbosa Science

UGANDA NATIONAL EXAMINATION BOARD  
PRIMARY LEAVING EXAMINATION

**Science 2000**

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<br>USE ONLY |       |              |
|---------------------------|-------|--------------|
| Qn.<br>No                 | MARKS | EXR'S<br>NO. |
| 1-10                      |       |              |
| 11-20                     |       |              |
| 21-30                     |       |              |
| 31-40                     |       |              |
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| 55                        |       |              |
| Total                     |       |              |

## SCIENCE 2000

### SECTION A

1. Which substance can exist in all of the three states of matter?

**Water**

2. How does a millipede protect it self from danger?

**It coils its body**



3. Why is a mushroom not a true plant?

**Does not have chlorophyll**

**Does not manufacture its food**



4. Why are canine teeth suitable for tearing food?

**They are sharp and pointed**



Canine

5. Give one of the secondary sex characteristics that is common in both adolescent boys and girls.

**Growth of pubic hair**

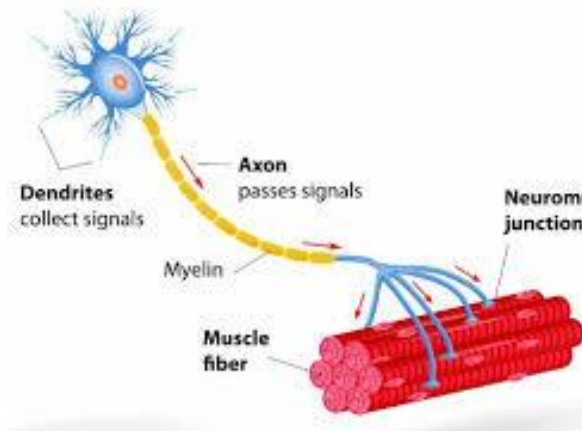
**Sweat gland become more active**

**Growth of hair in the armpit**

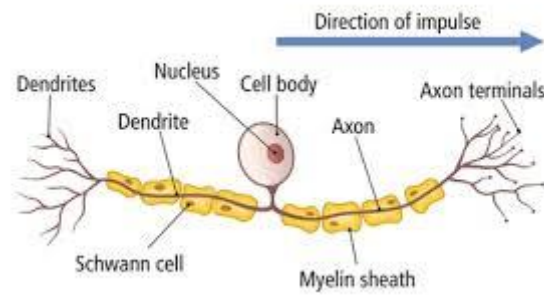


6. How is the function of motor nerves different from those of sensory nerves?

**Motor nerve carry impulses from the central nervous system to the body while sensory nerves carry impulses from the body to the to the central nervous system.**



Motor neuron



Sensory neuron

7. Why is a dry season most suitable for crop harvesting?

**There is enough heat to dry the crops**

8. What is the importance of de-beaking in poultry?

**The stop poultry from eating eggs**



Debeaking is cutting off the sharp end of the beak of poultry

9. State any one sign of a dehydrated child.

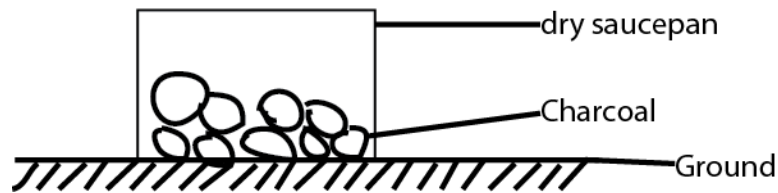
**Pale body**

**Sunken eyes**



10. In the diagram below, burning charcoal was removed stove (sigiri) and it was covered by a dry saucepan as shown .After a short time, it stopped burning.

Explain why the charcoal stopped burning



**Oxygen that supports burning was cut off from the burning charcoal**

11. Give one sign you would use to identify a compound fracture.

**Bone breaks and come out of the skin**



12. Why is the spacing of children important to a family?

Easy to plan for the family

13. State one external physical feature one would use to identify a cock in poultry.

**A cock has a bigger crown than hen**

**A cock has a large comb and wattle**



Hen



Cock

14. What is soil erosion?

**Soil erosion is the washing away of top soil by agents such as wind, running water.**

15. Give a reason why water passes through sandy soil fastest.

**Sandy soil has big particles and air spaces**

16. Alex keeps his left-over food covered. why does it go bad after some time?

**Due to presence of bacteria**

17. Give one main difference between plants and animals.

**Plants manufacture their food whereas animals do not.**

**Plants have chlorophyll, animals do not have chlorophyll**

18. Why is carbon oxide used as a fire extinguisher?

**Carbon dioxide does not support burning**

**Carbon dioxide is denser than air, thus it displaces oxygen from a burning item**

19. Mukasa's baby has these signs:

Very underweight  
Always hungry  
Pot belly  
bony face  
Wasted muscles

What disease is the baby likely to be suffering from?

**Kwashiorkor**



20. Beside use of seeds, what other part of a flowering plant can used for propagation?

Stem cutting such as sweet

Potatoes

Stem cutting

such as cassava

stem tuber

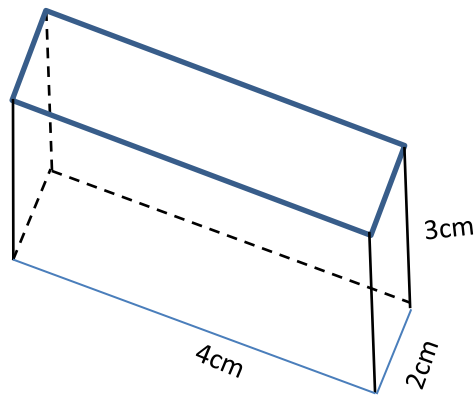
e.g. irish

leaves

e.g. bryophylum



21. The diagram below shows a chalk box. Find its volume.



Volume = length x width x height

$$= 4 \times 2 \times 3$$

$$= 24\text{cm}^3$$

22. State one of the characteristics of the objects that float on water.

**They are less dense than water**

23. Why is the moon not regard as a star?

**Does not give out its own light**

Study the animals given in list **A** and those **B**. Use it to answer questions 24 and 25

A: FISH, BIRD, FROG

B: MAN, WHALE, BAT

24. How do animals in list A differ from those in B as regards reproduction?

**Animals in list A reproduce by laying eggs while animals in list B produce live young ones**

25. How are animals in list **A** similar to those in list **B**?

**They are all vertebrates**

26. What is the source of energy in thermal electricity?

**Fuel**

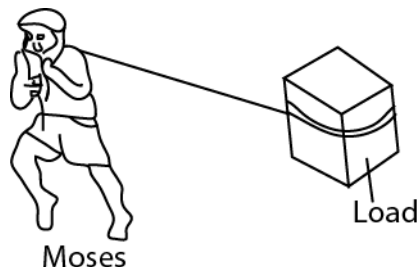
27. Give one way in which friction is useful to a person riding a bicycle.

**Slows down the speed of bicycle during breaking**

28. Josephine could only read her notes when the book was at a distance of not more than one metre from her eyes. What advice would you give Josephine?

Use a concave lens spectacle to correct her shortsighted defect.

29. In the diagram, Moses is pulling a load the ground surface, as shown below.



How could Moses make his work easier?

**By using rollers**

30. What is the First Aid for high fever?

**Sponging with wet lukewarm cloth**

31. In terms of machines, how is the hammer similar to the human arm?

Both make work easy

32. What should be done to a clinical thermometer before taking the temperature of a person?

**Should shake to take mercury back to the bulb**

33. How can a child acquire artificial immunity?

**Through vaccination**

34. How does a vent help to reduce smell in a VIP latrine?

**Allows the air to flow through taking bad smell with it outside**

35. What is one possible danger of buying drugs from local shops or markets?

**May buy expired drugs**

**Take wrong dose**

**Take overdose**

36. What is near drowning?

**Near drowning is when a person swallows water in a water body, become unconscious but does not die**

37. What feature enables a housefly to spread germs?

**Hairy body**

38. Why is budgeting in a family useful?

**To prevent over expenditure**

**Plan for the needs of the family fairly**

**To allow saving**

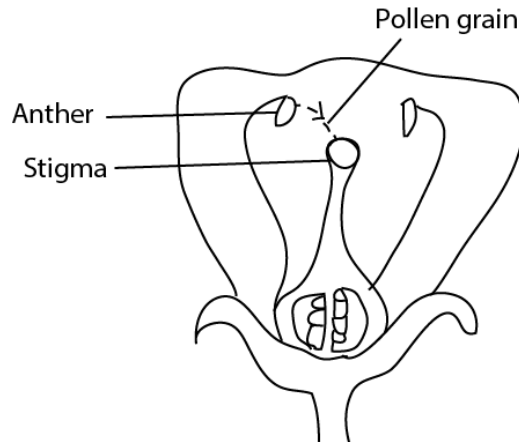
39. Give one example where bacteria are useful to man.

**Bacteria decompose organic wastes to form humus**

**Produce vitamin K in the intestines**

**Fermentation and formation of butter.**

40. In the space below, draw a diagram to show self –pollination in a flower.



### SECTION B

(a) Give two characteristics of insect pollinated flowers.

- (i) brightly colored petals
- (ii) they have strong scent
- (iii) they have nectar
- (iv) sticky stigma

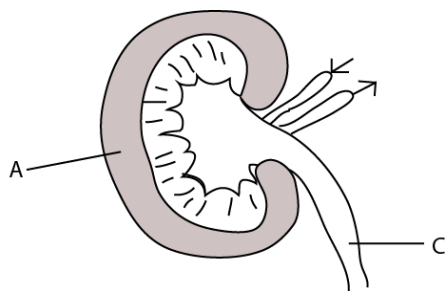
(b) Why is a moth able to pollinate plants at night?

**They detect strong scent from flowers**

(c) State the difference between self-pollination and cross –pollination.

**Self pollination is the transfer of pollen grains from the anthers to the stigma of the same flower while cross pollination is the transfer of pollen grain from the anther of one flower to the stigma of another flower of the same kind.**

42. The diagram below shows the structure of a kidney. Use it to answer question (a) and (b)



(a) Name the part labelled with letter A.

**Cortex**

(b) What substance goes through the part labelled C?

**Urine**

(c) State any two function of the kidney that are similar to those of a skin.

(i) **Removal of urea**

(ii) **Remove excess water**

43.(a)state any one characteristics of social insects.

**Live and move together such ad ants and bees**

(b) Give any two characteristics of flowers which attract bees to visit them.

**Good scent**

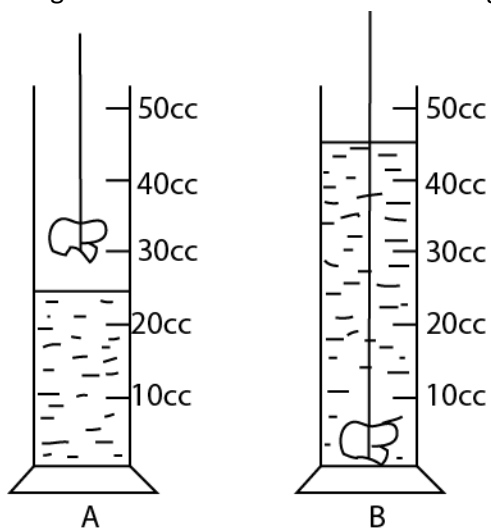
**Brightly colored petals**

**Contains nectar**

(c) Why is a worker bee not able to reproduce?

**They are sterile**

44. The diagram below is a method of measuring an irregular object. Study it and answer questions that follow.



(a) Calculate the volume of the stone.

**Volume of stone = volume of water + stone – volume of water without stone**

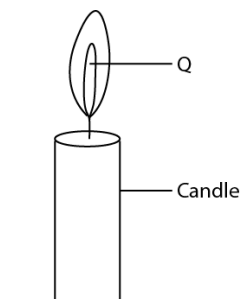
$$= 45 - 25$$

$$= 40\text{cm}^3$$

(b) Name the method used to find the volume.

**Displacement method**

45. The diagram below is of a burning candle. Use it to answer question(a) and (b)



(a) What two forms of energy are given off at Q?

(i) **Light**

(ii) **heat**

(b) What gas is supporting the process?

**oxygen**

(c) What other process in living thing produces the same gas as the candle?

**Respiration**

**Germination**

46. Use the list of food stuffs given below and answer the following questions.

**BEANS, RICE, CABBAGE, MILK, ORANGES.**

(a) Give two food stuffs that are a source of proteins.

(i) Beans

(ii) Milk

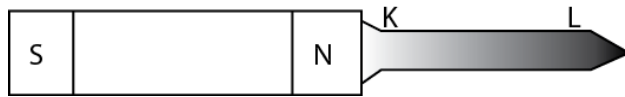
(b) How are cabbages useful in one`s diet?

Add roughages to prevent constipation

(c) Why would you regard a list of the foods given above a balanced diet?

It contains all the necessary food nutrients

47. In the diagram below, when the nail was brought nearer to the magnet it was attracted as shown  
Use the diagram to answer questions (a) to (d) below.



(a) How does the nail get magnetized?

**By induction**

(b) Name the pole marked L.

**North pole**

(c) Which other method can be used to magnetize the nail without using a magnet?

**Electrical method**

(d) Name the type of a magnet in (c)

**Electromagnet**

48. (a) What is the use of First Aid box?

**To store First AID tools**

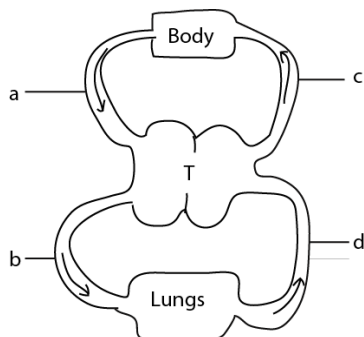
(b) What is meant by drug abuse?

**Take unprescribed drugs that put a person's life in danger**

(c) Give any two pieces of advice to a person who is on drug abuse.

- (i) Sensitize him/her on the bad effect of drug abuse
- (ii) To get activities that can keep him busy during his/her free time.
- (iii) To take him to rehabilitation centre.

49. The diagram below is an illustration of a blood circulation system in a mammal. Study it carefully and use it to answer questions (a) and (b) below.



(a) what body organ does part T represent?

**Heart**

(b) What is the difference in the blood carried by blood vessels marked b and c.

**b carries deoxygenated blood whereas c carries oxygenated blood**

(c) Give the difference between an artery and a vein.

- **Artery have thick walls whereas veins have thin walls.**
- **Arteries carry blood from the heart to the body whereas veins carry blood from the body to the heart**

50. Complete the table below which shows some disease and how they are spread among people

| Disease           | How it is spread             |
|-------------------|------------------------------|
| (i) Gonorrhea     | Having unprotected sex       |
| (ii) Rabies       | Infected dog bite            |
| Tetanus           | Through dirty wound and cuts |
| (iv) Tuberculosis | Through air by coughing      |

51.(a) What first aid will you give to an accident victim?

**Check the person's pulse whether is still alive or not.**

**Stop bleeding**

**Put a splint to broken part of the body.**

(b) Explain how you will administer first aid nose bleeding.

(i) pinch the nose to stop bleeding

(ii) bend the head forward

(iii) Breathe through the mouth.

52. (a) Name two agents of soil erosion.

**(i) wind**

**(ii) running water**

**(iii) animal**

(b) How do trees stop soil erosion?

(i) they reduce the speed of wind

(ii) their roots hold the soil particles together.

(c) How does tree-cutting in an area lead to soil erosion?

**Expose the soil to agents of soil erosion**

53. (a) What is water pollution?

**Adding substance to water which makes unsafe for drinking and inability to support life.**

(b) Suggest any two ways in which a community can improve on water source.

**(i) fence it to prevent stray animals from contaminating it**

**(ii) Digging around the water source**

(c) Why is borehole water safer to drink than well water?

**The borehole water is not exposed like a well's water**

54. Suggest any two methods that can promote the idea of PHC in a school.

**(i) regular cleaning of the latrine**

**(ii) sweeping the compounds**

**(iii) washing plates after food**

**(iv) elect healthy prefects**

(b) What element is promoted in PHC?

**Sanitation and hygiene**

(c) Identify any two activities that committees should do in your village.

(i) Organizing people for immunization

(ii) Educating people about health and associated advantage

- (iii) Improving the source of clean water in the village
- (iv) Organizing people for community sessions

55. The table below shows part of child's immunization card. Use it to answer question (a) to (d) below

|         | 1       | 2                | 3        |
|---------|---------|------------------|----------|
| BCG     | 12/8/88 | 16/12/88         |          |
| POLIO   | 11/8/88 | 16/12/88         | 13/01/89 |
| DPT     | 11/8/88 |                  | 13/01/89 |
| MEASLES | 9/5/89  | <b>COMPLETED</b> |          |

(a) When was this child born?

**12/8/88**

(b) Give a reason to support your answer in (a) above

**BCG is given soon after birth**

(c) At what age was the immunization completed?

**9months**

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

9months is difference between the dates of completion of vaccination and that of commencement of vaccination

**END**