



2009

UGANDA NATIONAL EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATION

BASIC SCIENCE AND HEALTH EDUCATION

Time Allowed: 2 hours 15 minutes

Index No. [] [] [] [] [] [] [] [] [] []

Candidate's Name

Candidate's Signature

School Name

District Name

FOR EXAMINERS' USE ONLY

Read the following instructions carefully:

- 1. The paper has two Sections: A and B.
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.
4. Unnecessary alteration of work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in the boxes indicated "For Examiners' Use Only" and those inside the question paper.

Table with 3 columns: Qn. No., Marks, Examiner's No. and rows for question ranges (1-10, 11-20, etc.) and a TOTAL row.

Turn Over

SECTION A: (40 MARKS)
Questions 1 to 40 carry one mark each.

1. Name **one** domestic animal used for protection in a home.

.....
.....

2. Give the function of a micropyle to a germinating seed.

.....
.....

3. What general name is given to animals with a backbone ?

.....
.....

4. Name the type of preservation where slow burning fire is used to dry food.

.....
.....

5. Give **one** pest which destroys the roots of root crops in gardens.

.....
.....

6. What state of matter is smoke ?

.....
.....

7. Give a reason why a tsetse fly is dangerous to cattle.

.....
.....

8. How is reproduction in beans different from that in ferns ?

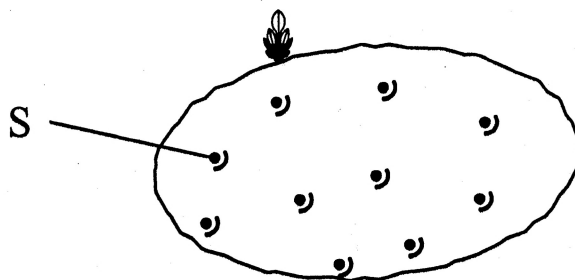
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9. Write **one** activity that can help to reduce snake bites in homes.

.....
.....

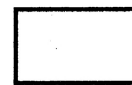
10. The diagram below is of an Irish potato tuber.

Use it to answer the question that follows.



What is the use of the part marked S?

.....
.....



11. Why is immunization of children carried out free of charge in Uganda?

.....
.....

12. Write **one** reason why people working in dirty areas should wear gumboots.

.....
.....

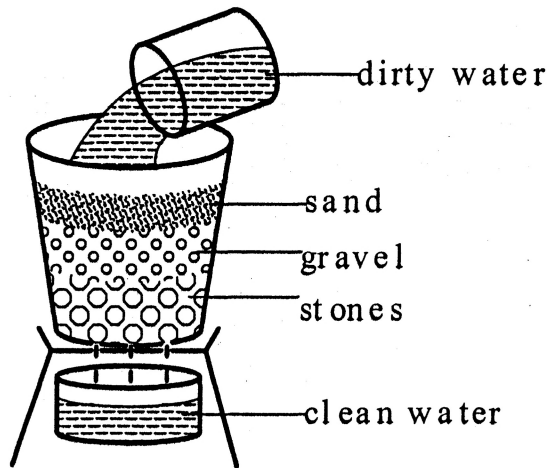
13. Why should young girls avoid getting pregnant?

.....
.....

14. What type of farming should a farmer use in order to harvest both crops and wood?

.....
.....

15. The diagram below shows a method of making water clean.
Use it to answer the question that follows.



Name the method used above.....

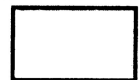
16. Why do objects thrown in the air fall back on the ground?

17. Why should communities fence open spring wells?

18. State **one** way of preventing athlete's foot disease.

19. Why is an ostrich unable to fly?

20. Apart from trachoma, name **one** other eye disease.



21. State **one** way holes in the soil created during brick-making may contribute to the spread of malaria in an area.

.....
.....

22. State **one** natural cause of a family failing to have enough food.

.....
.....

23. Name **one** material used to guard against electric shocks.

.....
.....

24. Give **one** activity the community can do to reduce road accidents.

.....
.....

25. Name **one** activity carried out by farmers to remove unwanted plants from their gardens.

.....
.....

26. Give **one** way in which claws are important to birds.

.....
.....

27. To which group of simple machines does a ladder leaning against a wall belong ?

.....
.....

28. Why is it a bad practice to store cooked food in a room where domestic animals are kept?

.....
.....

29. Write one method of rearing cattle used in towns.

.....
.....

30. State one similarity in structure between a snail and an earthworm.

.....
.....



31. Apart from rock particles and living organisms, name one other part of soil.

.....
.....

32. What happens when an opaque object is placed in a path of light?

.....
.....

33. Name the kind of energy possessed by water at 100° C.

.....
.....

34. Give one factor to be considered when choosing a site for a school garden.

.....
.....

35. The diagram below shows a stage of development of an animal.

Use it to answer the question that follows.



Name **one** animal that develops from this stage.

.....

36. State **one** common problem which adolescents face.

.....

.....

37. Why is breast feeding very important to a mother ?

.....

.....

38. How do plants reduce the amount of carbon dioxide in the atmosphere ?

.....

.....

39. Name the part of a flower that holds the anther head.

.....

.....

40. Give **one** reason why people who get badly burnt are given plenty of fluids.

.....

.....

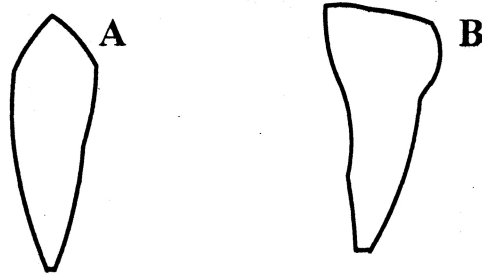


SECTION B: (60 MARKS)

Questions 41 to 55 carry four marks each.

41. The following diagram shows two types of teeth in human beings.

Use it to answer questions that follow.



(a) Name the type of tooth marked:

(i) **A**

(ii) **B**

(b) Give the use of each of the teeth in the diagram above.

(i) **A**

(ii) **B**

42. (a) How does a guitar produce sound when its string is plucked?

.....
.....

(b) How can the pitch of a guitar be changed?

.....
.....

(c) Name **one** way of storing sound.

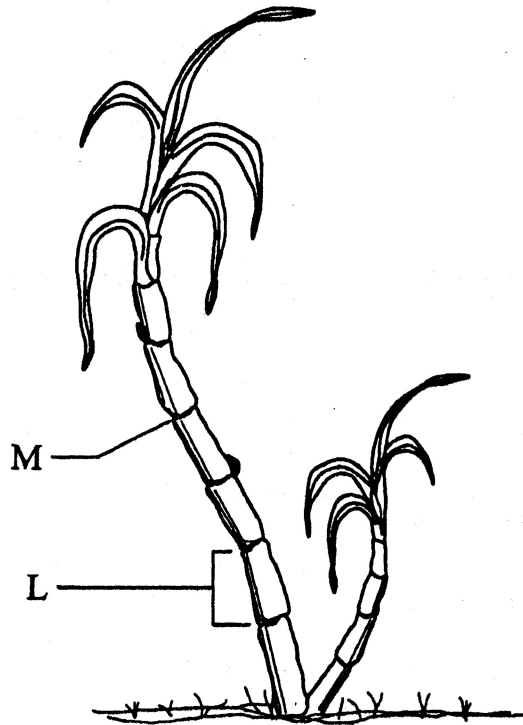
.....
.....

(d) Give a reason why sound cannot travel through a vacuum.

.....
.....

43. The diagram below is of a sugarcane plant.

Use it to answer questions that follow.



(a) Name the parts marked with letters M and L.

(i) M

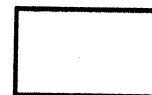
(ii) L

(b) What food value is got by eating sugar cane ?

.....
.....

(c) How is such a sugarcane plant propagated ?

.....
.....



44. (a) State **one** way in which a nursery bed is important to a farmer.

.....
.....

(b) Name **two** vegetable crops commonly grown in a nursery bed.

(i)

(ii)

(c) Give **one** way in which a farmer can care for crops in a nursery bed.

.....
.....

45. (a) Write **one** dangerous substance found in tobacco smoke.

.....
.....

(b) Give the meaning of each of the following:

(i) active smoking

.....
.....

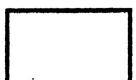
(ii) passive smoking

.....
.....

(c) What piece of advice can you give to smokers to help them to stop the habit?

.....
.....

46. The density of sand is 3 grams per cubic centimetre. Its mass is 270 grams. Find its volume.



47. (a) What is First Aid ?

.....
.....

(b) List any **two** things found in a First Aid box.

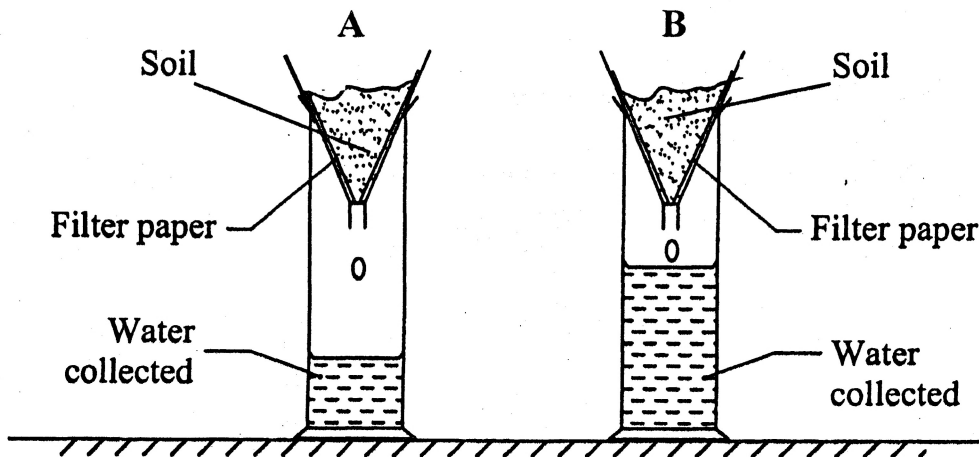
(i)

(ii)

(c) State why every school should have a First Aid box.

.....
.....

48. Equal amounts of water were poured onto soil **A** and **B** shown in the diagram below:



(a) From which soil did more water drop ?

.....

(b) State why more water dropped from the soil you have named in (a) above.

.....
.....

(c) Name the type of soil in **B**.

.....

(d) Give **one** use of the type of soil in **A**.

.....
.....

49. (a) Write **two** activities that help to promote good sanitation in a home.

(i)

.....

(ii)

.....

(b) Name **two** diseases that may attack a family due to poor sanitation.

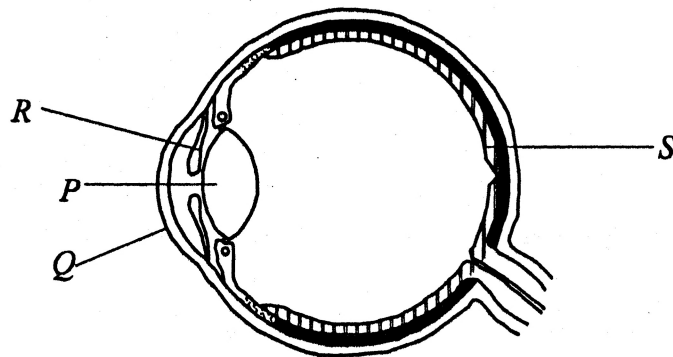
(i)

(ii)



50. The diagram below shows a human eye.

Study it and use it to answer questions that follow.



(a) Name the parts marked:

(i) *P*

(ii) *Q*

(b) What is the function of the part marked *R*?

.....

(c) Which letter on the diagram shows where images are formed?

.....

51. The table below shows weather instruments and what they measure. Match the items in list A with those in list B.

List A	List B
Wind vane	amount of rain
Barometer	speed of wind
Rain gauge	amount of air pressure
Anemometer	direction of wind

- (a) Wind vane
- (b) Barometer
- (c) Rain gauge
- (d) Anemometer

52. (a) What name is given to the process that turns sugar to alcohol?

.....

- (b) Apart from making alcohol, state two other ways the process you have named in (a) can be useful to human beings.

(i)

.....

(ii)

.....

- (c) Name the fungus used in this process.

.....

.....



53. (a) Name the process that takes place in the air sacs of a human lung.

.....

.....

(b) What prevents the trachea (wind pipe) from closing during breathing?

.....
.....

(c) Give **two** products found in the air we breathe out.

(i)

(ii)

54. (a) State the function of each of the following structures in the human skeleton.

(i) ligament

.....

(ii) tendon

.....

(b) Give **one** example of a long bone in a human skeleton.

.....

(c) Name **one** disease that affects a human skeleton.

.....

55. (a) Name the germ that causes gonorrhoea.

.....

.....

(b) Give **one** sign of gonorrhoea infection in a newly born baby.

.....

.....

(c) How does gonorrhoea infection increase the chances of a person getting HIV/ AIDS?

.....

.....

(d) How can a person avoid getting gonorrhoea?

.....

.....

