



UGANDA NATIONAL EXAMINATIONS BOARD

**PRIMARY LEAVING EXAMINATION
2011**

BASIC SCIENCE AND HEALTH EDUCATION

Time Allowed: 2 hours 15 minutes

Index No.

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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 changes 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 shown: "**For Examiners' Use Only.**" and those inside the question paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXR'S NO.
1 – 10		
11 – 20		
21 – 30		
31 – 40		
41 – 43		
44 – 46		
47 – 49		
50 – 52		
53 – 55		
TOTAL		

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

1. Name the disease which is spread by a female anopheles mosquito.

.....

.....

2. Which form of energy changes ice to water ?

.....

3. Give a reason why drugs should be kept away from children.

.....

.....

4. Name the class of simple machines to which an axe belongs.

.....

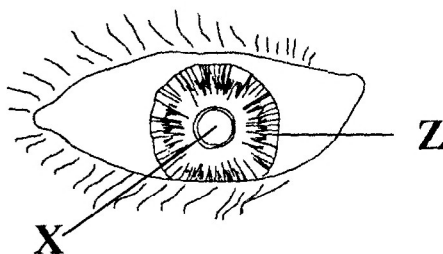
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5. Write down any **one** example of a plant fibre.

.....

The diagram below is of a human eye.

Use it to answer questions 6 and 7.



6. Name the part marked with letter **X**.

.....

7. Give the use of the part marked with letter **Z**.

.....

.....

8. State **one** type of accident whose First Aid is to put the affected part of the body in cold water.

.....

9. Why should children be given food which is rich in proteins?

.....

.....

10. Give **one** way in which plants depend on soil.

.....

.....



11. Give **one** way in which the umbilical cord is important to the developing foetus in the uterus.

.....

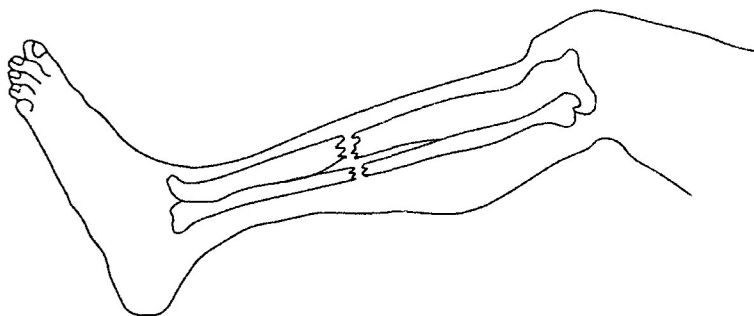
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12. Name any **one** characteristic of seeds which are dispersed by wind.

.....

.....

The diagram below shows a fracture. Use it to answer question 13.



13. What type of fracture is shown in the diagram above?

.....

14. State the compass direction in which a freely suspended magnet will rest.

.....

15. What is the use of gills in a mushroom?

.....

.....

16. Give **one** way in which P7 pupils can promote immunization in their families.

.....

.....

 17. Apart from pregnant mothers, young and disabled people, give any **one** other group of people who need special care in a family.

.....

.....

18. In which way is a fuse similar to a switch in a simple electric circuit?

.....

.....

19. Why should a nurse shake the clinical thermometer before it is used on another patient?

.....

.....

20. State **one** way in which a farmer can control crop diseases without using chemicals.

.....

.....



21. Name the turning point of a machine.

.....

.....

22. Why are ventilators usually put on a higher level than doors and windows in a house?

.....

.....

23. How do conifers differ from other non-flowering plants?

.....

.....

24. What is the importance of a chimney in a kitchen?

.....

.....

25. Apart from getting food, give any **one** other way in which birds benefit from plants.

.....

.....

26. What type of skeleton does a cockroach have ?

.....

.....

27. What is the importance of water during seed germination?

.....

.....

28. How does a human body cool itself on a hot day?

.....

.....

29. How is the fertilization of the eggs of amphibians different from those of reptiles?

.....

.....

30. How can the pitch of a string of a musical instrument be changed?

.....

.....



31. Mary shouted in a big house and she heard the same sound repeated.
Name the repeated sound she heard.

.....
.....

32. Give **one** disadvantage of using herbicides (chemicals) to kill weeds in crop gardens.

.....
.....

33. State an example of a crop which is a legume.

.....

34. Give any **one** way in which the human liver can be kept in proper working condition.

.....
.....

35. State any **one** way in which termites depend on soil.

.....
.....

36. A man lives with his wife, two sons and a nephew. What type of family is this?

.....
.....

37. Name any **one** by-product of respiration.

.....
.....

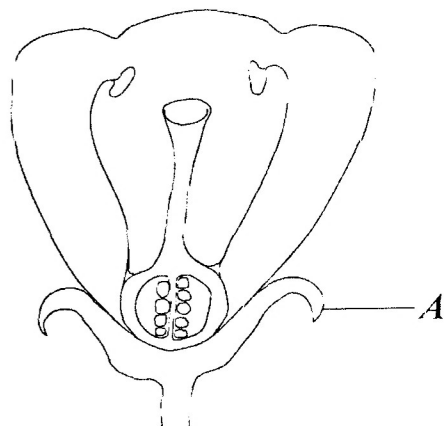
38. State the type of change that takes place when a baby grows to an adult.

.....

.....

The diagram below is a section of a flower.

Use it to answer questions 39 and 40.



39. Name the part marked *A*.

.....

40. Use letter *P* to show the part that produces the male reproductive cells.



SECTION B: (60 MARKS)
Questions 41 to 55 carry four marks each.

41. (a) Give **one** way in which Primary Health Care (PHC) is important to a community.

.....

.....

- (b) State the element of Primary Health Care which is promoted by each of the following activities:

- (i) Sweeping the kitchen.

.....

.....

- (ii) Putting drops of polio vaccine into the mouth of a child.

.....

.....

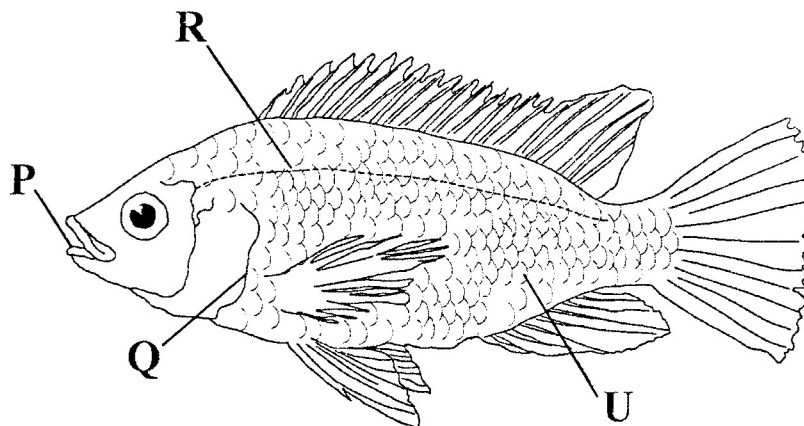
- (iii) Eating a balanced diet.

.....

.....

42. The diagram below is of a fish.

Use it to answer the questions that follow.



(a) Name the part labelled **R**.

.....

(b) Give the function of the parts labelled **P** and **U**.

(i) **P**

.....

(ii) **U**

.....

(c) What structure is covered by the part labelled **Q**?

.....

.....

43. (a) State **two** differences between birds and mammals.

(i)

.....

(ii)

.....

(b) Give **two** similarities between birds and mammals.

(i)

.....

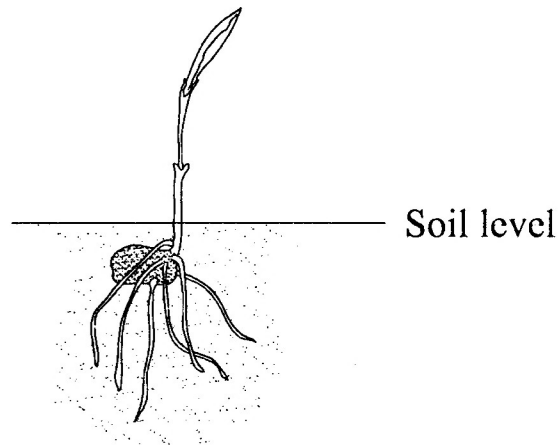
(ii)

.....



44. The diagram below shows a germinating seed.

Use it to answer the questions that follow.



(a) State the type of germination shown above.

.....

(b) Where does the seed above store the food used during germination ?

.....

.....

(c) Give an example of a crop with the same type of germination.

.....

.....

(d) Apart from moisture, state any **one** other condition necessary for seed germination.

.....

45. (a) State any **two** natural causes of environmental degradation.

(i)

.....

(ii)

.....

(b) Give **two** human causes of environmental degradation.

(i)

.....

(ii)

.....

46. (a) Which part of the body is affected by each of the following diseases ?

(i) Scabies

.....

(ii) Trachoma

.....

(b) State the vector which spreads each of the following diseases:

(i) bilharzia

.....

(ii) rabies

.....



47. (a) Mention **two** primary sex changes that happen in boys.

(i)

.....

(ii)

.....

(b) Give **two** secondary sex changes which happen in **both** boys and girls.

(i)

.....

(ii)

.....

48. (a) Apart from millet, wheat and sorghum, give any **one** other cereal food crop.

.....

.....

- (b) Mention any **one** common pest that destroys cereal crops.

.....

.....

- (c) Give any **two** reasons why cereal crops are dried before storing.

(i)

.....

(ii)

.....

49. (a) Apart from a worker bee, mention **two** other types of bees found in a bee hive.

(i)

(ii)

- (b) Write down **two** materials collected by a worker bee from the environment.

(i)

(ii)

50. (a) What form of energy does a ball have before it is kicked?



.....

- (b) What energy change takes place immediately a ball is kicked?

.....

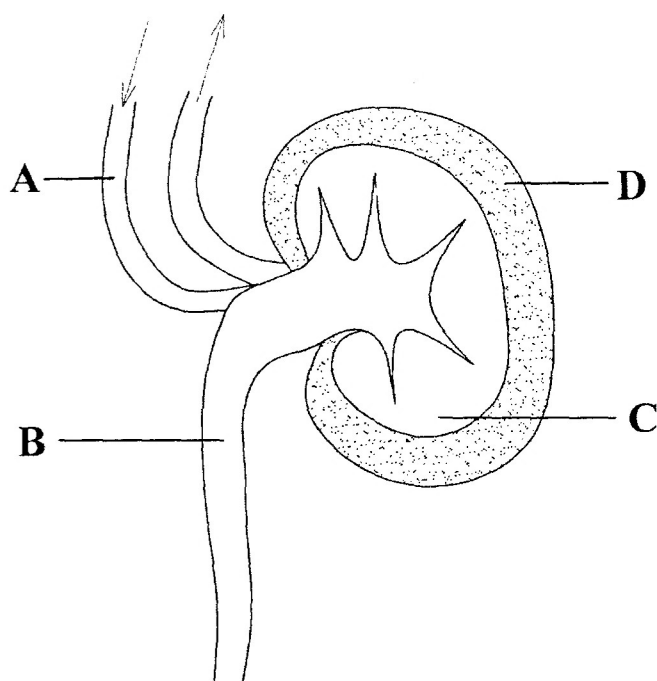
- (c) Give **two** forms of energy produced by the ball as the goal keeper catches it.

(i)

(ii)

51. The diagram below is a section of a human kidney.

Use it to answer the questions that follow.



- (a) Name the parts marked with letters **B** and **C**:

(i) **B**

(ii) C

- (b) What happens to blood in the part marked with letter **D**

- (c) How is part **A** important to the kidney?

.....

- 52.** (a) Give any **two** reasons why it is important to wash hands before eating food.

(1)

(ii)

(b) Apart from washing hands, mention any **two** other activities one can do to maintain personal hygiene.

(i)

.....

(ii)

.....



53. (a) Name **two** natural resources in the environment that enable green plants to make their food.

(i)

.....

(ii)

.....

(b) What is the name of the process in (a) above?

.....

.....

(c) Which gas is given off during this process?

.....

.....

54. (a) Name any **two** products got from sheep.

(i)

.....

(ii)

.....

(b) What does **shearing** refer to in sheep rearing ?

.....

.....

(c) How can a farmer control pneumonia in sheep ?

.....
.....

55. (a) What force makes a pencil to reduce in length as one writes?

.....
.....

(b) Name any **one** form of energy produced by the force in (a) above as one writes.

.....
.....

(c) Give any **two** disadvantages of the force you have named above to the writer.

(i)

(ii)



