



UGANDA NATIONAL EXAMINATIONS BOARD
PRIMARY LEAVING EXAMINATION
2022

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No.						Personal No.		

Candidate's Name:

Candidate's Signature:

District ID No.

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Read the following instructions carefully:

1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections: **A** and **B**. Section **A** has **40** questions and section **B** has **15** questions. The paper has **15 printed pages** altogether.
3. Answer **all** questions. **All** answers to both Sections **A** and **B** must be written in the spaces provided.
4. All answers **must** be written using a **blue** or **black** ball point pen or ink. Any work written in pencil will **not** be marked.
5. Unnecessary **changes** in your work and handwriting that cannot be read easily may lead to **loss** of marks.
6. Do not fill anything in the table indicated: **"FOR EXAMINERS' USE ONLY"** and boxes 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 part of a flowering plant which grows into a side branch.
.....
2. State any **one** factor to be considered when selecting a site for keeping honey bees.
.....
3. Give any **one** use of proteins in the human body.
.....
4. Give any **one** way in which evaporation is important in the environment.
.....
5. Why is it advisable to chew food properly before swallowing it?
.....
6. State any **one** way in which Athlete's foot can be controlled among school children.
.....

The diagram below shows a light ray **A** onto a lens. Use it to answer questions 7 and 8.



7. Name the type of lens in the diagram above.
.....

8. Complete the path of ray **A** as it passes through the lens.
.....

9. Give any **one** method of controlling malaria in a community.
.....

10. Name the part of the human nervous system that carries nerve impulses.
.....

11. State the function of the kidney.
.....

12. How do you know that a substance is a solid?
.....

13. State the function of the heart.
.....

14. Why is it important to have a balanced diet?
.....

15. State the function of the lungs.
.....

16. State the function of the skin.
.....

9. Give any **one** role a School Health Club can play in the control of malaria in a community.

.....

10. Name the part of a human tooth that contains blood capillaries and nerve endings.

.....



11. State the reason why the volume of water in a container rises when a stone is lowered into it.

.....

12. How does cigarette smoking affect the human lungs?

.....

.....

13. State any **one** element of Primary Health Care (PHC) which is important in the prevention of COVID-19.

.....

14. Why are tomatoes grouped as annual crops?

.....

.....

15. State any **one** way of conserving fossil fuels.

.....

16. Name the vector which spreads river blindness to people.

.....

30. Apart from proper insulation, state any **one** other way of protecting children against electric shock at home.

.....



31. Give any **one** way in which regular physical exercises help to maintain the muscular-skeletal system healthy.

.....

32. Give **one** way in which moulds are similar to ferns.

.....

33. State **one** reason why ash is usually applied around the pit hole of a latrine.

.....

.....

34. Name **one** excretory product removed by the lungs.

.....

35. Write down any **one** activity that members in a School Science Club can do to conserve the environment.

.....

36. State any **one** way in which echoes can be reduced in a large hall.

.....

37. State **one** way in which water is important during seed germination.

.....

38. How does tapeworm infestation lead to malnutrition in humans?

.....

39. Give any **one** way children at home.

.....

40. Give any **one** effect

.....

23. State any **one** way in which an adolescent can control bad odour that results from body changes.

.....

.....

24. Mention any **one** way in which you can prevent some clothes from staining others during washing.

.....

Use the diagram of the animal below to answer questions **25** and **26**.



25. Identify the class of vertebrates to which the above animal belongs.

.....

26. How does the above animal protect itself?

.....

27. State any **one** way in which the spread of tuberculosis can be controlled.

.....

28. Mention any **one** way in which food may get contaminated after it has been prepared.

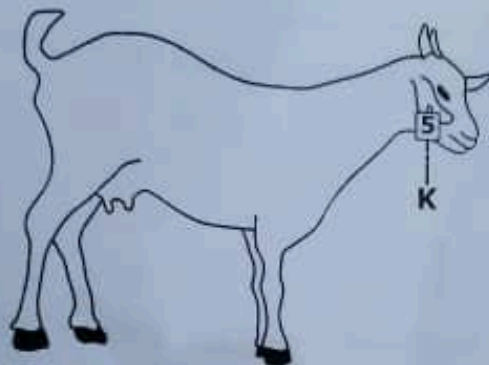
.....

29. Why does sound travel fastest in solids compared to other states of matter?

.....

.....

The diagram below shows one of the management practices in goat rearing. Use it to answer questions 17 and 18.



17. Name the management practice shown with letter K.
.....
18. How is the above practice important to a goat farmer?
.....
.....
19. Which type of weather favours proper harvesting of beans?
.....
20. Give any **one** way in which you can reduce chances of accidents when crossing a road.
.....
21. Name any **one** human body organ protected by the rib cage.
.....
22. Give any **one** condition that may make an electric bulb fail to produce light in a complete circuit.
.....

23. State any **one** results from b
.....
.....

24. Mention any staining other
.....

Use the diagram

25. Identify
.....

26. How do
.....

27. State contr
.....

28. Men
ber
.....

29. V
r

39. Give any **one** way in which drug poisoning can be prevented among children at home.

.....

40. Give any **one** effect of cloud cover in an area.

.....



54. You are provided with the following materials:

Salt, sugar, teaspoon, boiled water and clean containers. After washing your hands, write **four** other steps you will take to prepare salt sugar solution for treating dehydration at home.

(i)

(ii)

(iii)

(iv)

55. (a) Write down any **two** things that can be added to chicken feeds in order to increase the amount of calcium.

(i)

(ii)

(b) State any **two** practices a poultry farmer can do to layers to increase on egg production.

(i)

(ii)



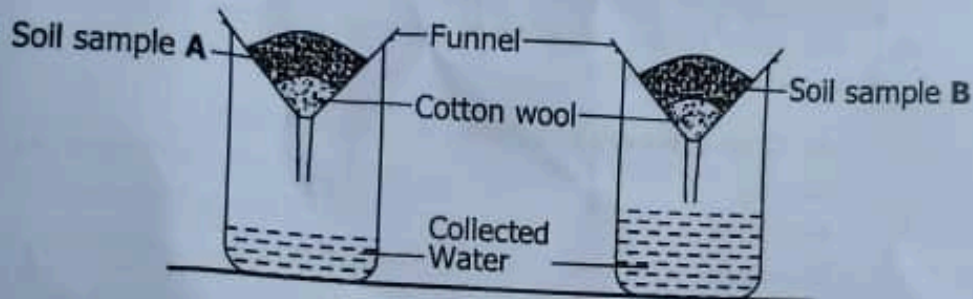
- (b) Apart from improving soil aeration, identify any other **two** ways in which earthworms are important in the soil.

(i)

(ii)



47. The diagram below shows an experiment carried out on two equal amounts of soil samples **A** and **B**. Equal amount of water was poured on the soil samples. The water that passed through the soil samples after ten minutes was collected in containers of the same size as shown. Study and use it to answer the questions that follow.



- (a) What property of soil was being studied in the experiment?
-
- (b) State the function of the cotton wool in the experiment above.
-
- (c) Given that the two soil samples were from sand and clay, which of the two samples was clay?
-
- (d) Give any **one** reason for your answer in (c) above.
-
-

9. Give any **one** role a School Health Club can play in the control of malaria in a community.

10. Name the part of a human tooth that contains blood capillaries and nerve endings.



11. State the reason why the volume of water in a container rises when a stone is lowered into it.

12. How does cigarette smoking affect the human lungs?

13. State any **one** element of Primary Health Care (PHC) which is important in the prevention of COVID-19.

14. Why are tomatoes grouped as annual crops?

15. State any **one** way of conserving fossil fuels.

16. Name the vector which spreads river blindness to people.

44. (a) To which class of levers does a see-saw belong?

(b) Two pupils, Okello and Jjuuko sat on a see-saw. Okello who weighs 40 kg sat 2.5 metres away from the pivot on one side of the see-saw. Jjuuko sat 4 meters away from the pivot on the other side. Find the mass of Jjuuko if the see-saw was balanced. (03 marks)

45. (a) Name the largest vein in the human body.

(b) Name the type of blood that is transported by the pulmonary artery.

(c) State **one** characteristic of arteries that enables them to carry blood at high pressure.

(d) Give **one** way in which the structure of capillaries enables them to exchange body materials.

46. (a) Name the group of worms to which the following belong;

(i) Liver flukes.

(ii) Hookworms.

(b) Apart from improving ways in which earthw

(i)

(ii)

47. The diagram below shows amounts of soil samples A on the soil samples. The after ten minutes was colle Study and use it to answer



(a) What property

(b) State the fun

(c) Given that t
which of the

(d) Give any c