



**UGANDA NATIONAL EXAMINATIONS BOARD**  
**PRIMARY LEAVING EXAMINATIONS**  
**2023**  
**INTEGRATED SCIENCE**  
**Time allowed: 2 hours 15minutes**

**Index No.**

<b>Random No.</b>						<b>Personal No.</b>		

**Candidates Name:** .....

**Candidates' Signature:** .....

**School Random No:** .....

**District ID:** .....

**Read the following instructions carefully:**

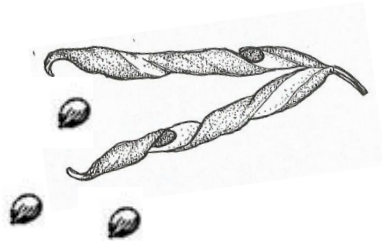
1. Do not write your **school** or **district name** anywhere on this paper.
2. This paper has two sections **A** and **B**. Section **A** has **40 questions** and **Section B** has **15 questions**.  
This paper has **12 pages** printed altogether.
3. Answer **all** questions. All the working for both sections **A** and **B** must be shown in the spaces provided.
4. **All** answer **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 easily read may lead to **loss of marks**.
6. Do not fill anything in the box indicated: "**For Examiners' Use Only**" and the 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		

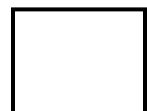
## SECTION A

Questions **1 to 40** carry one mark each.

1. Name any **one** livestock kept in Uganda.  
.....
2. Identify any **one** type of weather which requires the use of an umbrella.  
.....
3. How does a bee and a bean plant benefit from each other?  
.....  
.....
4. How can you help a local fisher man to make his fish stay longer without rotting?  
.....
5. Which human food is got from cotton seeds?  
.....
6. In which way is melanin in the skin useful to people?  
.....
7. Identify the method of seed dispersal shown below.



8. Give an example of a plant which is dispersed through the above method.  
.....
9. Why is it dangerous to eat under cooked pork?  
.....



10. **John's torch uses 3 dry cells to light.** Calculate the voltage of John's torch.

11. Write any **one** advantage of fencing animal to farmers.

.....

12. Apart from a measuring cylinder, name any other instrument used in measurement of volume of irregular objects.

.....

13. Which form of energy enables plants to make starch?

.....

14. Give any one advantage of reading medical instructions before using a drug.

.....

.....

15. Give any **one** property of floating objects.

.....

16. Why is it important to teach children oral and dental care?

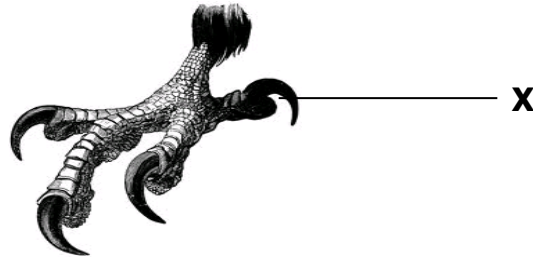
.....

17. Apart from a watch, name any **one** other device at home that uses dry cells.

.....



**The diagram below shows a leg of a bird. Use it to answer question 18 and 19.**



18. Name the kind of food that the above feeds on.

.....

19. How are structures labelled **x** useful to such birds?

.....

.....

20. How can you help a crop farmer to improve the fertility of his land?

.....

21. Mention any **one** material used for building a permanent house.

.....

22. Why would you encourage all people at home to use an insecticide treated mosquito net?

.....

23. How is a cat of help to a crop farmer?

.....

24. State any **one** use of water at school.

.....

25. What action can you take to help a child who has an insect in the ear?

.....

26. Name the mineral nutrient responsible for the formation haemoglobin in blood.

.....



27. Identify any **one** health problem which is associated with population increase.

.....

28. **The diagram below shows a farm practice.** Identify this practice.



.....

29. Apart from being used for food, write any other use of seeds to people.

.....

30. In which way is the function of muscles similar to the one of joints in the body?

.....

31. Give any **one** use of animal cow dung to people.

.....

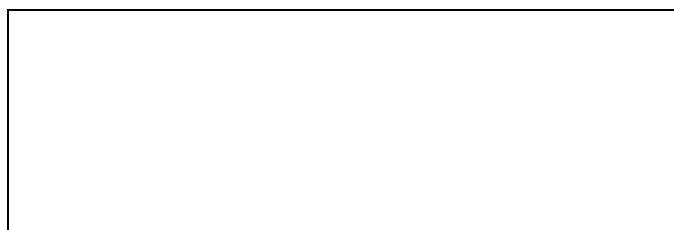
32. Name any **one** disease that can spread due to poor dispersal of refuse.

.....

33. Why should people spread out their beddings regularly in the sunshine?

.....

34. Draw a diagram of an example of a wedge in the space below.



35. Why is it important for a community to clean their water sources regularly?
- .....
- .....
36. Which part of the human alimentary canal produces hydrochloric acid?
- .....
37. Name the process in plant which is similar to sweating in people.
- .....
38. Give any **one** disadvantage of refraction of light to people.
- .....
39. What advice would you give to breast feeding mother to help her produce more milk for her baby?
- .....
- .....
40. State any **one** advantage of using electricity for cooking.
- .....

### SECTION B: 60 MARKS

Questions **41 to 55** carry four marks each



41. (a) **Match the following types of joints with their locations in the body correctly.**

#### A

Gliding joints  
Pivot joints  
Ball and socket joints  
Hinge joint

#### B

Elbow and knee  
wrist and ankle  
at the neck  
shoulder and hips.

#### A

- (i) Gliding joints .....
- (ii) Pivot joints .....
- (iii) Ball and socket joints .....
- (iv) Hinge joint .....

#### B

42. (a) Which part of the following crops can be used for producing alcohol?

(i) Millet .....

(ii) Cassava .....

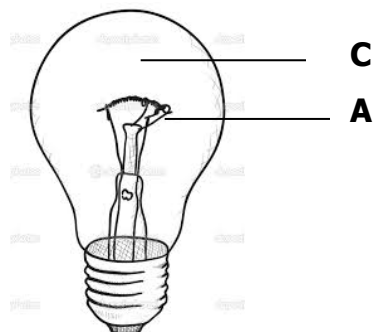
(b) Name the fungus which is used in the production of alcohol.

.....

(c) Apart from waragi, give any other example of an alcoholic drink.

.....

43. **The diagram below is of an electric bulb; use it to answer the questions that follow.**



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

.....

(b) Why is part marked with letter A coiled?

.....

(c) What is the use of gas found in part marked **C**?

.....

(d) What energy changes take place when an electric bulb is in use?

.....

44. (a) Write any **one** example of each of the following

(i) Solute .....

(ii) Solvent .....

(b) How can you separate a mixture of beans and stones?

.....

.....



(c) Give a method of separating mixtures used when getting juice from passion fruits.

.....

45. (a) Mention any **one** way of preparing cassava for food.

.....

(b) Name any **two** examples of food stuffs got from plants that are rich in proteins.

(i)..... (ii) .....

(c) Why should children be given more foods rich in proteins?

.....

46. (a) Name the second stage of the life cycle of a cockroach.

.....

(b) State any **one** disease spread by cockroaches to people.

.....

(c) How can you help family members to reduce cockroach infestation in a home?

(i) .....

(ii).....

**47. Use the list of items below to answer questions that follow.**

<b>Goat</b>	<b>wind</b>	<b>coal</b>	<b>sisal</b>
-------------	-------------	-------------	--------------

(a) Name any **two** items above that belong to renewable resources.

(i)..... (ii) .....

(b) Identify **one** item that is a fossil fuel.

.....

(c) Apart from providing meat, give any one other product provided by the goat.

.....

48. (a) What type of birds do farmers keep for the following purposes?

(i) Meat production .....

(ii) Egg production .....





(b) Give **one** disadvantage of keeping poultry birds under free-range system.

.....

(c) Write any **one** advantage of keeping records in a poultry farm.

.....

49. **Re-arrange the following steps of making ORS in their correct order.**

- Measure one litre of drinking water in a clean container.
- Stir the mixture and taste before it is given to a patient.
- Measure eight levelled tea spoons of sugar and one levelled tea spoon of salt in the container.
- Wash your hands with clean water and soap.

.....

.....

.....

.....

50. (a) Write **one** way through which HIV spreads from an infected person to a healthy person.

.....

(b) State any **one** effect of HIV/AIDS to the community.

.....

(c) Why should children be taught about HIV/AIDS?

.....

(d) Give **one** way of caring for a person with HIV/AIDS.

.....

51. (a) Identify any **two** objects that produce light of their own.

(i) ..... (ii) .....

(b) Give **two** uses of light in the environment.

(i) .....

(ii) .....



52. (a) Mention any **one** condition for rusting to occur in metallic materials.

.....

(b) Why is rusting regarded as a chemical change?

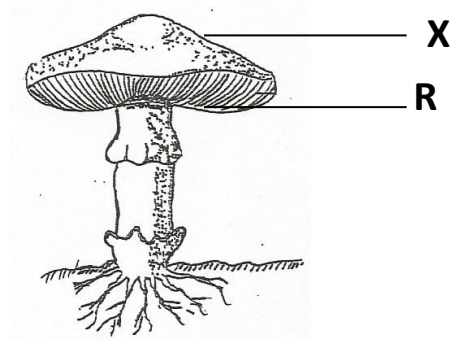
.....

(c) How can you protect metallic materials from rusting?

(i) .....

(ii) .....

**53. The diagram below shows mushroom. Study it and answer the questions which follow.**



(a) Name part labelled **x**.

.....

(b) Of what use are structures marked **R** to mushrooms?

.....

(c) How do mushrooms feed?

.....

(d) How do people benefit from growing mushrooms?

.....

54. (a) State the importance of the stomata on the plant leaf.

.....

(b) Give the **two** types of venation in plant leaves.

(i)..... (ii) .....

(c) Why do some plants shed their leaves in dry seasons?

.....



**55. The table below shows characteristics of different types of soil. Use it to answer the questions below.**

<b>A</b>	<b>B</b>	<b>C</b>
-Dark in colour -Has a lot of humus. -Has silt	-coarse or rough -largest air spaces -Highly aerated -Has bigger particles	-Sticky or slippery when it rains. -water logged -Has finest particles.

(a) Identify the type of soil at **A** and **C**.

(i) **A** .....

(ii) **C** .....

(b) Which soil sample would you use for the following?

(i) Making pots .....

(ii) Filtering muddy water .....



**END.**