

# UGANDA NATIONAL EXAMINATIONS BOARD

### PRIMARY LEAVING EXAMINATION

#### 2024 INTEGRATED SCIENCE

## Time Allowed: 2 hours 15 minutes

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Candidate 5 manual	
Candidate's Signature:	
District ID No.	

### Read the following instructions carefully:

- Do not write your **school** or **district name** anywhere on this paper.
- This paper has two sections: A and B. Section A has 40 questions and section B has 15 questions. The paper has 15 questions.
- 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
  as black ball point pen or ink. Any answer
  - or **black** ball point pen or ink. Any answer or work written in pencil other than drawings will **not** be marked. 5. Unnecessary **changes** in your work and
  - handwriting that cannot be read easily may lead to loss of marks.
- Do not fill anything in the table indicated: "FOR EXAMINERS' USE ONLY" and boxes inside the question paper.

FO	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 .	4	1			



#### SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

State any one role of the school health committee in the promotion of

Give any one factor that favours the breeding of bacteria in an area.

Name the best season for harvesting sweet potatoes.

1.

health at school.

	By what process does the body release energy from digested food?
	19740
	diagram below shows a bottle of soda. Study and use it to answer tions 5 and 6.
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	1 1
	AND
5.	Name the gas enclosed in the space marked <b>D</b> .
5.	Why do soda manufacturers usually leave the space marked <b>D</b> when
	filling bottles of soda?
	tung and the second state of the control of the con

CS CamScanner

7.	State any ${\bf one}$ way in which capital is important when planning to start a goat keeping project.
8.	Write down any <b>one</b> simple message that can be displayed around the school compound to encourage good health habits.
9.	State any <b>one</b> characteristic of forms of energy.
10.	Name the disease of teeth whose signs are swollen gums, bright red gums and bleeding gums when brushing teeth.
11.	Give any <b>one</b> way in which minerals can be conserved.
12.	State any <b>one</b> danger of buying essential drugs from local shops.
	Maria - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
13.	Give any one way in which people use inclined planes in their daily life.
14.	State any <b>one</b> reason why a wire mesh should be used when constructing a house for domestic rabbits.
15.	State any <b>one</b> effect of physical changes in the environment.
	3 Turn Over

 State the importance of using sugar when preparing Oral Rehydration Solution (ORS) for a dehydrated patient.

The diagram below shows a waste management activity commonly done by people in our community. Use it to answer questions 17 and 18.



- 17. Identify the waste management activity shown in the diagram above.
- Give any one way in which the activity above helps in the management of wastes in the environment.
- Write down any one method of preserving food that drains moisture from the foodstuff.
- 20. State any one difference between sound energy and light energy,

- 21. Name any **one** human body organ where involuntary muscles can
- 22. State any one way in which simple machines make work easier.
- 23. Give any one effect of food taboos in nutrition.

The diagram below shows an object placed Infront of a mirror. Use it to answer question 24 and 25.



- 24. What type of mirror is shown in the diagram above?
- Complete the diagram by drawing the image to show its appearance in the mirror.
- State any one disadvantage of treating water using chemicals like chlorine.
- Apart from brewing alcohol, give any one other way in which fermentation is helpful to people.

**Turn Over** 

28.	State any <b>one</b> way in which hardening off is important in crop growing.
29.	In which way does a hyena benefit from living in the same environment with a lion?
30.	State any <b>one</b> advantage of using hydro electricity in solving daily
50.	problems.
31.	El call
32.	Apart from mosses and ferns, name any <b>one</b> other plant that reproduces by means of spores.
33.	State any one natural factor that can lead to low food production in an area.
34.	State the difference in functioning between the cortex and medulla in the human kidney.
35.	State any <b>one</b> factor that can make sorted seeds fail to germinate after planting.
	A company of

36.	Give any <b>one</b> way in which a rain gauge can be made to measure the accurate amount of rainfall received in an area.
The ques	diagram below shows the local method of keeping poultry. Use it to answe stions 37 and 38.
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	AND THE PARTY OF T
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37.	Name the system of keeping poultry shown above.

- Mention any one way in which the structure marked K can be a danger to the birds.
- State any one reason why you would advise a crop farmer to practice crop rotation.
- Identify any one deficiency disease that requires an individual to feed on a lot of fruits and vegetables.



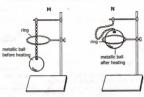
Turn Over

#### SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each

41.	msM	me the childhood immunisable disease t	that causes;
	(a)	Skin rashes:	
	(b)	Paralysed limbs:	
	(c)	Swollen neck:	
	(d)	Stiff muscles:	
42.	The	e diagrams below show compound leave swer the questions that follow.	es. Study and use them to
	<		
	-	x	w
	(a) (b)	(i) X:	
	(c)	On the compound leaf marked W. la	abel the leaf stalk

	Apart from a solar drier, give any <b>one</b> other device that uses solar energy.				
(b) W	hat is the im	portance of the bl	ack lining inside a solar drier?		
co	onservation o	of the environment	e use of solar energy helps in the		
(ii					
	Study it caref	ows diseases of the fully and complete	e respiratory system, causes and it correctly.		
			engin en une une une		
Lung	cancer		. Shortness of breath		
Lung o	cancer	bacteria	Blood stained sputum		
Lung o		bacteria bacteria/virus			
Pneum (a) Ni (i)	nonia lame the step ) Soapy w i) Excess v	bacteria/virus virus  used in cleaning vater from clothes:	Blood stained sputum		

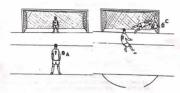


- (a) Identify the state of matter affected by heat in the experiment above.
- (b) Give the reason why the metallic ball failed to pass through the ring in diagram  ${\bf N}$ .
- (c) State what should be done in order to make the metallic ball pass through ring in diagram  ${\bf N}$ .
- (d) What does the above experiment show about matter?

<ul><li>(a) Name the vector that trans</li></ul>	mits:
(i) sleeping sickness :	
(ii) relapsing fever :	
	ch the spread of sleeping sickness o
be controlled.	
(i)	The second secon
(ii)	
.,	
functions in part B.	he human heart in part A and their
Part A: Parts of the human heart.	Part B: Functions
(i) Pulmonary Artery	Transports oxygenated blood to the heart
(ii) Aorta	Prevents oxygenated and de- oxygenated blood from mixing.
(iii) Septum	Transports de-oxygenated blood to the lungs
(iv) Vena Cava	Transports oxygenated blood to all body parts.
(IV) Vena Cava	
Match correctly the parts of the provided below.	7 - 70
Match correctly the parts of the provided below.  (i) Pulmonary Artery:	heart with their functions in the space
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Match correctly the parts of the provided below.  (i) Pulmonary Artery:  (ii) Aorta:	heart with their functions in the spa-

49.	(a)	Write down any <b>two</b> organic materials used when making compost mature.
		(i)
		(ii)
	(a) ·	State <b>one</b> way in which a farmer can increase decomposition of organic matter when making compost manure.
	(b)	Apart from compost manure, name any <b>one</b> other example of natural fertilisers.
		500 - 500 -
50.	(a)	Write down any <b>two</b> services provided to pregnant mothers during ante-natal care.
		(1)
		(ii)
	(b)	Give any $\mbox{two}$ disorders that affect the human reproductive system.
		(1)
		(ii)
51.	(a)	Give any $\ensuremath{\text{two}}$ practices that can harm cattle when grazing them in the field.
		(1)
		(ii)
	(c)	Mention any <b>one</b> way in which a newly born calf benefits from colostrum.

- (d) State the difference in the way in which a lactometer and a strip cup are used on the farm
- The diagrams below show a football player taking a penalty shoot during a football match. The ball possessed the types of mechanical energy. Study them and answer the questions that follow.



- Identify the type of mechanical energy possessed by the ball at Points A and B.
  - (i) A:
  - (ii) B
- (b) State the energy change that takes place to the ball at point  ${\bf B}$  and point  ${\bf C}.$
- (c) Name any one form of energy experienced by the ball at point C as the goal keeper receives it.

Turn Over

53.	(a)	t A butcher slaughtered a cow in his abattoir and found tapeworms in
55.	(a)	the cow's meat. Identify the following from the statement above;
		(i) parasite :
		(ii) host:
	(b)	State any <b>one</b> way in which the tapeworm benefited from the cow.
	(c)	What health condition would people get when they eat the cows meat in the above statement?
54.	(a)	Name any <b>one</b> method of separating mixtures used to separate paraffin from water.
	(L)	
	(b)	Sherry wanted to obtain salt from sand, she put the mixture of salt and sand in a container. Write <b>three</b> other steps you would advise her to follow in order to obtain salt from sand.
		(ii)
		(iii)
		25 31386

 The diagram below shows a modern beehive. Study and use it to answer the questions that follow.



- (a) Identify the modern beehive shown in the diagram above.
- (b) Name the parts of the modern bee hive above marked  ${\bf J}$  and  ${\bf L}$ .
  - (i) J: .....
- (c) State the importance pf the part marked K on the modern beehive above.