

UGANDA NATIONAL EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATION

2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

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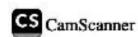
Candidate's Name:	
Candidate's Signature:	
District ID No.	

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 printed pages altogether.
- Answer all questions. All answers to both Sections A and B must be written in the spaces provided.
- All answers must be written using a blue or black ball point pen or ink. Any work written in pencil other than drawings will not be marked.
- 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 in the boxes inside the question paper.

FOI	R EXAMINE	RS'
QN. NO.	MARKS	EXR'S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		V.
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

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SECTION A: 40 MARKS

Answer all questions in this section. Questions 1 to 40 carry one mark each.

1.	Name any one type of latrine.
2.	Give any one reason why it is dangerous to take shelter under tall trees during rain.

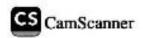
3,	State any one function of the diaphragm during the process of breathing.
4.	Name any one agent of soil erosion.
Th ans	e diagram below shows an animal in the group of invertebrates. Use it to swer questions 5 and 6.
5.	Name the animal shown in the diagram.
6.	State the group of invertebrates to which the animal belongs.
7.	Mention any one way in which vegetables can be kept fresh for some time.

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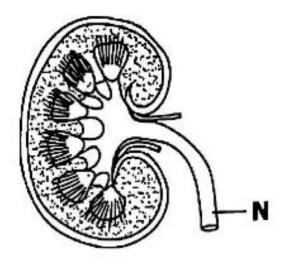
8.	State one way in which bacteria are useful in the formation of soil.

9.	Give the reason why a person suffering from bilharzia develops anaemia.
10	 Mention one way in which air circulation in a rabbit hutch can be improved.
11.	State the reason why the human skin develops goose pimples during cold weather.
12.	Give any one way in which you can utilise empty plastic bottles at home.

13.	Mention one function of a bandage found in a first aid kit.
14.	State any one way in which fermentation is important in our daily life.
15.	State any one reason why a builder would prefer a pulley to an inclined plane when lifting sand from the ground to the top of a building.



The diagram below shows a human body organ. Use it to answer questions 16 and 17.



16.	Name the organ shown above.
17.	Give the function of the part labelled N.
18.	Identify any one effect of pests and diseases on tuber crops.
19.	State any one way in which taking medicine without the instruction of a health worker can affect a family.
20.	Mention any one reason why harvesting of honey should be done during day time.
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
21.	Name the disorder in the skeletal system where a bone moves away from its normal position at the joint.





22.	State the reason why a cubic unit of wool weighs less than a cubic unit of a stone.

23.	State one way in which paddocking method of grazing cattle helps to break the life cycle of pests on a farm.

24.	Give one way In which rusting is important to the environment.
25.	Name the element of Primary Health Care which promotes the human body cleanliness.
	the
26.	Mention any one activity a School Health Club can do to improve the
	Health of Park
	State the property of air used in filling balloons.
27.	State the property of all oses
	State the property
	State any one way in which planting of trees alongside other crops
28.	improves the quality of soil.
	Give one reason why we should regularly wash our hands with clean
	Cive one reason why we should regularly would
29.	water and soap.
	Ψαι

	Mention one way in which the antennae of insects are similar to the
30.	Mention one way in which
(6)(%=	Mention one way in Whitehall the Mention of Mention one way in Whitehall the Mention of Mention one way in Whitehall the Mention of Mention on Whitehall the Mention of Mention of Mention on Whitehall the Mention of Ment
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31.	 Give one reason why the vacuum in a thermos flask particle. by conduction and convection. 	revents heat los
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The que	The diagram below shows a method of planting crops. L Questions 32 and 33.	Jse it to answe

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	\\ \psi \\ \ps	
32.	32. Identify the method of planting crops shown above.	
33.	 State any one advantage of the method of planting cro diagram above. 	ps shown in the

34.	34. Give any one example of an emotional change in adole	scents.

35.	 Name the immunisable viral disease which is spread sanitation. 	ad due to poor

36.	State the reason why a ray of light bends as it passes through a glass block.

37.	State any one way of conserving water as a resource in the environment.
38.	Mention one reason why you are encouraged to brush the tongue as well when cleaning the teeth.

39.	Mention any one way in which electric shocks can be prevented in a home.

40.	Give any one way in which crop farmers can keep seeds viable for a long time.

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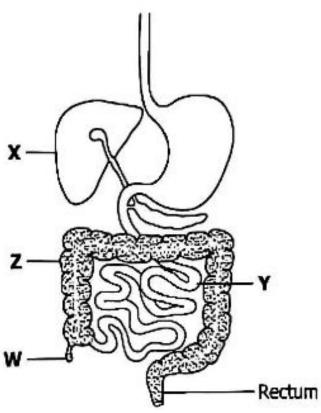
SECTION B: 60 MARKS

Answer all questions in this section. Questions 41 to 55 carry four marks each.

41.	(a)	Name the class of food that helps in the repair of body cells.
	(b)	Apart from contamination of food, mention any two other challenges that people who buy food from markets get.
		(i)
		(ii)
	(c)	State any one way of controlling food contamination in a market.
42.	(a)	Name the germ that causes cholera.
	(b)	Explain why cholera is common in heavily populated communities. (02 marks)
	(c)	Apart from proper use of latrines, mention any one other way of controlling the spread of cholera in the communities in (b) above.
43.	(a)	Name the correct garden tool for transplanting seedlings.
	(b)	State the reason why evening time is the best for transplanting seedlings.

(c)		ntion a Isplantir		two	advantages	of	mulching	а	garden	after
	(i)		*****						***********	
	(ii)	**********				,.,,				
									Γ	

44. The diagram below shows part of the human digestive system. Use it to answer the questions that follow.



(a)	Nan	ne t	he parts labelled;				
	(i)	X					
	(ii)	w					
(b)	State any one function of the following parts:						
	(i)	Y					
	(ii)	Z	***************************************				

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45.	The table below shows some of the steps followed in the cleaning of
	clothes and the purpose of each step. Complete the table correctly.

Step	Purpose
	Separating cloths according to washing needs.
Soaking	
	Removing dirty soapy water from the clothes.
Ironing	

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46.	(a)	Give the meaning of the term electromagnet.

	(b)	You are provided with the following items: Iron nall, copper wire, a dry cell and some pins.
		Describe how you can use the items to make a magnet.
		(03 marks)

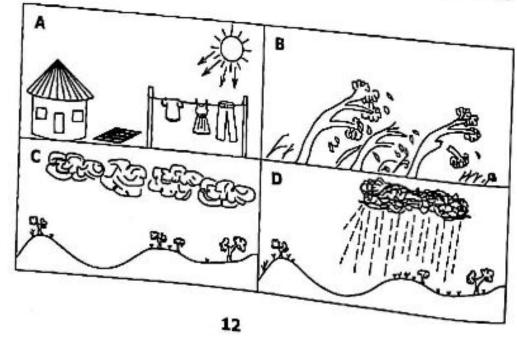
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47.	(a)	Mention any two materials that can be used in a digester to produce blogas.
		(1)
		(ii)
	(b)	Give a reason why a biogas digester should be tightly sealed.

	(c)	State any one advantage of using biogas.

		and a protective item made of
48.	The	diagram below shows a person wearing a protective item made of h. Use it to answer the following questions.
		K C C C C C C C C C C C C C C C C C C C
		and the state of the labelled K.
	(a)	Name the protective item labelled K.
		Identify any two diseases that can be prevented by the use of the
	(b)	Identify any two discourses protective item K.
		(i)
		(ii)
	(c)	Mention any one good pro-
	(0)	Тигл Over
		E. Service Control of the Control of

49,	(a)	Mention one example of musical instruments in each of the $group_S$ below:
		(i) String instruments
		(ii) Percussion Instruments
	(b)	Name any two methods of storing sound.
		(i) (ii)
	(a)	State the name given to insects that live and work together.
	(b)	Give any one way in which insects are useful to people.
	(c)	State any two human activities that are dangerous to insects in the environment.
		(i)
		(ii)
51.	The	diagram below shows types of weather. Study it and answer the



	(a)	Name the type of weather marked C.

	(b)	State one way in which the type of weather in A helps in formation of the type of weather in D .

	(c)	Give one way in which people protect themselves from the effects of the type of weather in B .
	(d)	State any one way in which too much of the type of weather in A is dangerous to the environment.

52.	(a)	State the meaning of the term vaccine.

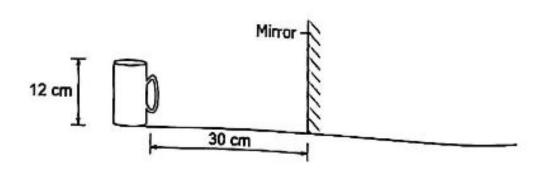
	(b)	Mention the way in which polio vaccine is administered.

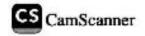
	(c)	State the reason why vaccines should be stored in a cool place.
	A TOUR	***************************************
	(d)	Identify any one way you can support immunization programmes
		in your community.
		,,



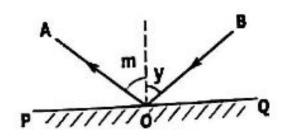
53,	(a)	Name the physical change which leads to the formation of the following:
		(i) Ice
		(ii) Rainfall
	(b)	State any two effects of physical changes caused by soil erosion in the environment.
		(l)
		(ii)
54.	(a)	Name the two muscles found in the human arm.
		(i)
		(ii)
	(b)	State any one function of muscles in the human body.
	(c)	State the importance of maintaining correct posture in humans.

55.	(a)	The diagram below shows a cup 12 cm high placed 30 cm infront of a plane mirror. Draw the image of the cup. (02 marks)





(b) The diagram below shows a reflection on a plane mirror PQ.



	2007-00000000000000 PM
(i)	Name ray A.
(1)	
	Monte 10) 1.
	State the relationship between angles m and y .
	habupan angles m and y.
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(īī)	State the relationary
(11)	State die reier

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Do not write in this margin	Candidate's Name Signature Subject Paper code Paper code MARWING GUIDE BY CATEGORISM CATEGORI
1. 2. 3.	SECTION A (Homarks) Pit latrine Toilets (Flush toilet) Potty. Pall trees conduct lightning which ean Kill people Tall trees act as lightning conductors. Tall trees act as lightning conductors. The diaphragm contracts to allow air into the lungs the diaphragm reloxes to let air out of the lungs. Flowing water Moving animals Atima Strong wind. A shail Mollusces / Molluskis.
8.8	By keeping Vegetables in refrigeraturs by sun drying. Beacteria helps to decompose organic matter to form humus! Bacteria breaks down organic matter to form humus. Bithorzia Blood flukes that Blood flukes Schistosomes that cause bilharzia feed on blood.
10	Constructing a robbit hutch using a wire mesh. To prevent heat loss from the body. Using them as flower vessels/Using them for making play materials/Using them as water bottles/Using them for Storing liquid medicine/Chemicals. For dressing big cuts. Fermentation helps in boking of bread/Making of alcohol from fruit Juice and Cereals. Helps in making of biogas.
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OCTOBE

29. To prevent easy spread of dirrhoeal faccal diseases. To prevent the spread of germs.

To kill germs on hands. 30. Both are used for feeling. It has no matter It has not no molecules / 32. Row planting 33. It making weeding easy. It makes sproying easy, It makes horvesting easy
It controls pests and diseases
It controls overcrowding of crops. 34. Adolescents become interested in members of opposite sex They want freedom! they reject rules of elders They want to be recognized as mature They want to have their own identity they quickly react towards situation Measles. in speed of the light ray. Due to change By planting more trees Afforestation Fencing open water sources By avoiding bush burning By avoiding water pollution To prevent bad breathe To prevent bad smell. To promote oral hygiene. 39. Avoid pushing metallic objects in electric sockets/ covering electric wires using insulators/ Repairing damaged electric wires 40. seeding seeds in a dry place Dwing seeds petting rest guards

UGANDA NATIONAL EXAMINATIONS BOARD THE TAX THAT TONS TIGHTS ! UGANDA CERTIFICATE OF EDUCATION OCTOBER - NOVEMBER, 2023 Candidate's Name Random No Do not in this margin (ii) High prices of food 1/Scarcity of food. Using proper methods of food preservation / For storing Cholerge Bacteria. here is poor sanitation diale to poor disposa rybbish and human wastes which act as breeding places for houseflies that spread other choterate Boiling drinking water. Spraying houseflies using insecticides Proper disposal of rubbish.
Burning of rubbish in rubbish pits

UGANDA NATIONAL EXAMINATIONS BOARD UGANDA CERTIFICATE OF EDUCATION OCTOBER - NOVEMBER, 2023 UCE Candidate's Name Do not write Signature in this Random No margin Subject Paper code/...../ Personal Number reezing Condensation lead to soil exhaustion tead to silting They lead to land degradation destroy homes for soil organisms Biceps ricers pody organs enable help in body movement deformation of bones/It prevents back and chest prevents dislocation It helps body organs to function we minor, 2cm 120m 30cm 30cm Di) Reflected ray are equal Both are equal. Page 5 of 8 © 2023 Uganda National Examination