

UGANDA NATIONAL EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATION

2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No.							Personal No.		
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Candidate's Na	me:	 	
Candidate's Sig	nature:	 	
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.
- 3. 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.
- 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 in 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	16 7	2			
44 - 46					
47 - 49		600			
50 - 52					
53 - 55	pilo yan n	property.			
TOTAL		7.7%			

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SECTION A: 40 MARKS

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

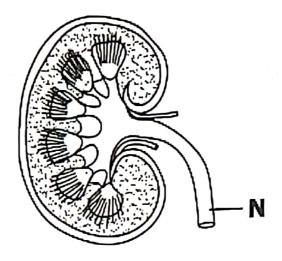
1.	Name any one type of latrine.
2.	Give any one reason why it is dangerous to take shelter under tall trees during rain.

3.	State any one function of the diaphragm during the process of breathing.
4.	Name any one agent of soil erosion.
The ans	e diagram below shows an animal in the group of invertebrates. Use it to wer questions ${f 5}$ and ${f 6}$.
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.

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 dally 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.
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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 .
10	Identify any one offert of nosts and dispasses on tuber crops
10.	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.
	- It a human
25.	body cleanliness.
26.	Mention any one activity a School Health Club can do to improve the health of people in school.
	median of pasi
27.	Chata the property of air used in filling balloons.
	State the property
28.	State any one way in which planting of trees alongside other crops improves the quality of soil.
	Give one reason why we should regularly wash our hands with clean
29.	water and soap.

	Mention one way in which the antennae of insects are similar to the
30.	Mention one way in Which the human skin in terms of function.
	Turn Over

33. State any one advantage of the method of planting crops shown in the	32. Identify the method of planting crops shown above.	****	****	The diagram below shows a method of planting crops. Use it to answer questions 32 and 33 .	31. Give one reason why the vacuum in a thermos flask prevents heat loss by conduction and convection.
in the				nswer	at loss

35,

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

34.

diagram above.

Give any one example of an emotional change in adolescents.

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.	home.

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

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)							

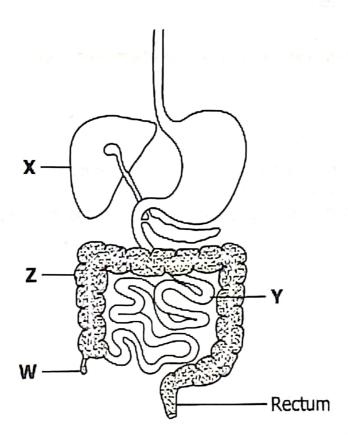
	(c)	Apart from proper use of latrines, mention any one other way of controlling the spread of cholera in the communities in (b) above.							
43.	(a)	Name the correct garden tool for transplanting seedlings.							
	(b)	State the reason why evening time is the best for transplanting seedlings.							

(c)	Mention	any	two	advantages	of	mulching	а	garden	after
	transplar	iting.							

(i)	
• •	



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



(a) Name th	e parts labell	led,
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(i)	X	
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(b) State any **one** function of the following parts:

(i)	Y	
• •		

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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	

46.	(a)	Give the meaning of the term electromagnet.
	(b)	dry cell and some pins.
		Describe how you can use the items to make a magnet.
		(03 marks)
		muzes— :

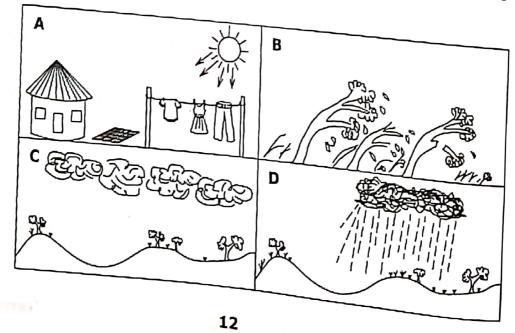
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47.	(a)	Mention any two materials that can be used in a digester to produce biogas.
		(l)
		(ii)
	(b)	Give a reason why a biogas digester should be tightly sealed.

	(c)	
48.	The clot	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
		ta diva item labelled K .
	(a)	Name the protective item labelled K .
		that can be prevented by the use of the
	(b)	Identify any two diseases that can be prevented by the use of the protective item K .
		(i)
		(ii)
	(c)	
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49	(a)	Mention one example of musical instruments in each of the groups below:
		(I) String Instruments
		(ii) Percussion Instruments
	(b)	Name any two methods of storing sound.
		(I)
		(ii)
50,	(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
	(5)	State any two human activities that are dangerous to insects in the environment.
		(i) (ii)
		(ii)
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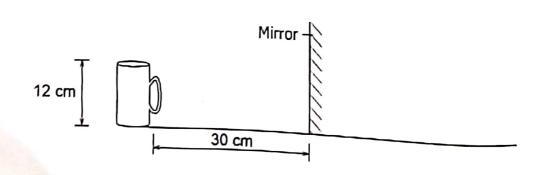
51. The diagram below shows types of weather. Study it and answer the questions that follow.



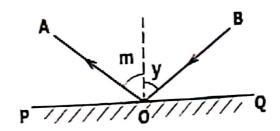
	(a)	Name the type of weather marked C .
	(b)	Chato and
	(D)	State one way in which the type of weather in $\bf A$ helps in formation of the type of weather in $\bf D$.

	(c)	
	(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.
	(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.



(i)	Name ray A.
(ii)	State the relationship between angles m and y .