

UGANDA NATIONAL EXAMINATIONS BOARD

PRIMARY LEAVING EXAMINATION

2023

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No.					Personal No.		
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Candidate's Name:									
Candidate's Sign	nature	:		••••••••••••••••••••••••••••••••••••••			••••••	•••••••	
District ID No.								•	

Read the following instructions carefully:

- 1. 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.
- 4. All answers **must** be written using a **blue** 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.
- 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				

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Turn Over

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1.	Name the type of teeth which develops last in human beings.
2.	Give any one way in which timely weeding of crops helps to control crop diseases.
3.	Give one element of weather which helps plants to make their own food.
4.	State the purpose of pressing the belly of a casualty of near drowning.
5	Give any one reason why fish are able to live in water.
The cansw	diagram below shows a structure in a cattle farm. Study and use it to er questions 6 and 7.
6.	Mention any one farm activity carried out in the above structure.
7.	How is the above structure useful when carrying out the farm activity you have mentioned above?

8.	Name the excretory organ that removes water and carbon dioxide from the human body.
	•••••••••••••••••••••••••••••••••••••••
9.	Mention any one similarity between fungi and animals in the way they feed.

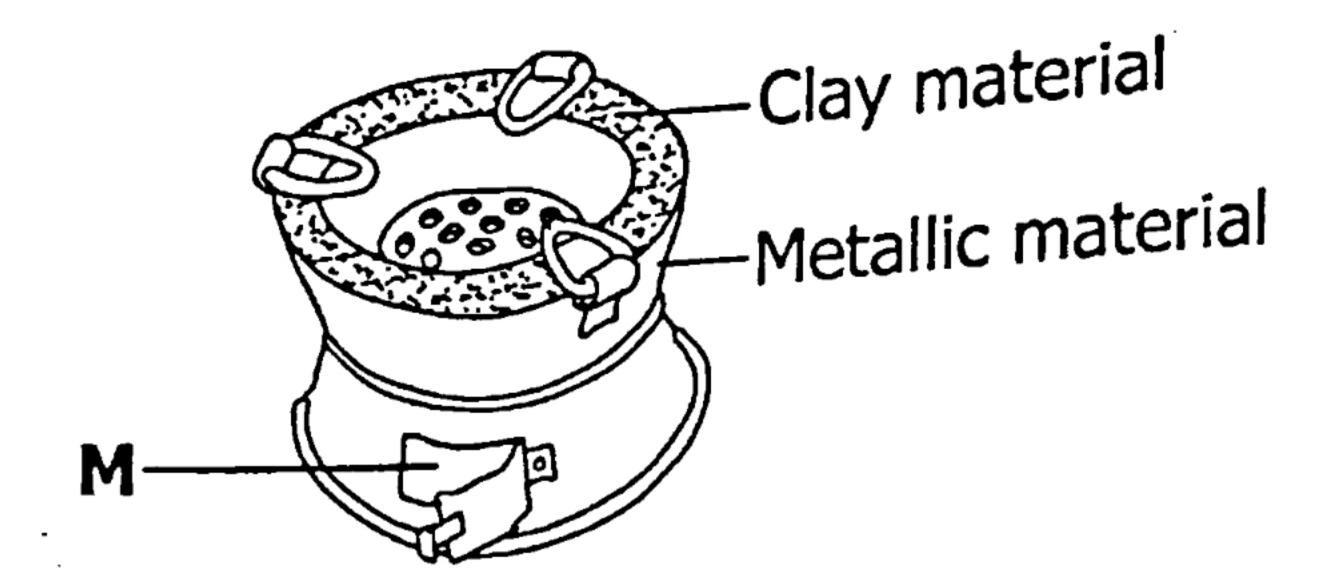
10.	State one way in which the screen on the pipe of a VIP latrine helps to control diarrhoeal diseases.
	······································
11.	State any one piece of advice you can give to children to help them prevent indigestion.
12.	State any one way in which you can safeguard yourself against smoking.
13.	Give the reason why most cooking pans are made of aluminium.

14.	State one reason why the use of soap makes washing clothes easy.

15.	Apart from deforestation, mention any one other human activity that can result into flooding in our environment.

16.	Mention any one sign of roundworm infestation in humans.

The diagram below shows a metallic charcoal stove. Study and use it to answer questions 17 and 18.



17.	Give the function of the part labelled M.
18.	State one advantage of building the inner wall of the charcoal stove with clay.
19.	State any one disadvantage of people living with domestic animals in the same house.
20.	Give one way in which the use of biogas is helpful in the conservation of environment.

21.	State the effect of opaque objects on a beam of light.

2.	Apart from making candles, mention any one other way in which bees-wax is useful to people.

23.	State any one reason why farmers are encouraged to preserve food stuffs like sweet potatoes.

24.	Name any one force which a pulley overcomes when it is being used.
25.	State one way in which a mask is important in maintaining the proper functioning of the respiratory system.
26.	Apart from having bright colours, state any one other thing that attracts pollinators to flowers.

27.	State any one way of caring for simple garden tools.
28.	State one way in which the Child Health Card is important to a parent.

	State any one factor that affects the pitch of sound produced by an object.

30.	Name any one body part that may be checked during a school health parade.

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31.	State any one way in which screws can be important in our daily life.
	•••••••••••••••••••••••••••••••••••••••
32.	Apart from being a source of food, give the reason why farmers hang green vegetables in poultry houses.

33.	State any one change in food which shows that food has gone bad.

34.	State what would be observed when a plastic pen rubbed in hair is brought close to small pieces of paper.

The dansw	diagram below represents a simple electric circuit. Study and use it to er questions 35 to 36.
	-Bulb
	P—————————————————————————————————————
35.	Give the function of P in the circuit.

36.	Why would the bulb not light when a piece of glass is used to close K ?
37.	Name any one part of the human body where a gliding joint is found.
	······································

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38.	State any one reason why pruning of trees is important in agroforestry.
39.	Write down any one activity that a School Environment Club can do to protect a school water source.
40.	State one reason why a person suffering from HIV/AIDS is easily attacked by many other diseases.

SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

(a)	State any two effects of rusting on iron sheets.						
	(i)				· · · · · · · · · · · · · · · · · · ·		
•	(ii)						
(b)	Identify rusting.	two ways in	which people	protect iron sheets	from		
	(i)						
	(ii)						
		ow shows an questions th		arm record. Study	and use it		
Dat	te	Health problem	Animal(s) affected	Treatment/ control method	Cost of treatmen		
01/	8/2023	Mastitis	Goats No. 4 and No. 8	Antibiotics	17,000/=		
		Worm	Kids (06)	Dewormers	25,000/=		
12/	10/2023	infestation	1		1		
	10/2023		All goats	Vaccination	50,000/=		
	11/2023			Vaccination	50,000/=		
03/	11/2023 Name t	Anthrax he farm record	rd above.	ne other disease w	******		
(a)	11/2023 Name t Apart fr controll	Anthrax he farm record om Anthrax, ed by the me	mention any on thool used on (ne other disease w	hich is		

43.	(a)	Identify the type of soil erosion common in hilly areas.

	(b)	State any one danger of soil erosion to the environment.
	(c)	Explain how deforestation causes soil erosion. (02 marks)
		· ••••••••••••••••••••••••••••••••••••
44.	that	diagrams below show part of a cassava plant and an Irish potato are used in propagation. Study and use them to answer the tions that follow.
		Tuber Y Part of cassava plant Irish potato
	(a)	Name the part of the cassava plant marked X.
		State the method of vegetative propagation where the part of a
	(b)	cassava plant shown above is used.
		······································
	(c)	In which one way is the function of part X of the cassava plant similar to that of part Y of the Irish potato?

	(d)	Give the importance of the tuber in the propagation of the Irish potato.
45	(a)	What is meant by the term vulnerable group of people?
	(b)	Apart from the sick, name one other group of vulnerable people
		in a community.
	(c)	State any two ways in which you can care for the sick in your community.
		(i)
		(ii)
46.	follov	es wanted to find the volume of an irregular object. He had the wing materials for the experiment; an irregular object, thread, flow can and water.
	(a)	Name one material Moses forgot to include on the list of his materials.

	(b)	What is the use of the thread in the experiment?
	(c)	Describe how Moses will get the volume of the irregular object in this experiment. (02 marks)
		······································
		·

17. (a) Identify any one body change in girls during adolesce			ce.
		***************************************	••••••••
	(b)	State any two ways in which school boys can help to pr teenage pregnancies.	event
		(i)	
	,	(ii)	
	(c)	State any one way of caring for the reproductive system humans.	in
		••••••••••••	
8.	The	diagrams below are of a foot and a beak of a bird. Study m to answer the questions that follow.	and use
		Beak	
	. :	Foot	
	(a)	Identify the group of birds with the type of foot and beak s	shown.
			in itc
	(b)	How do the parts of the bird shown above help it live well environment?	
		(i) Foot:	

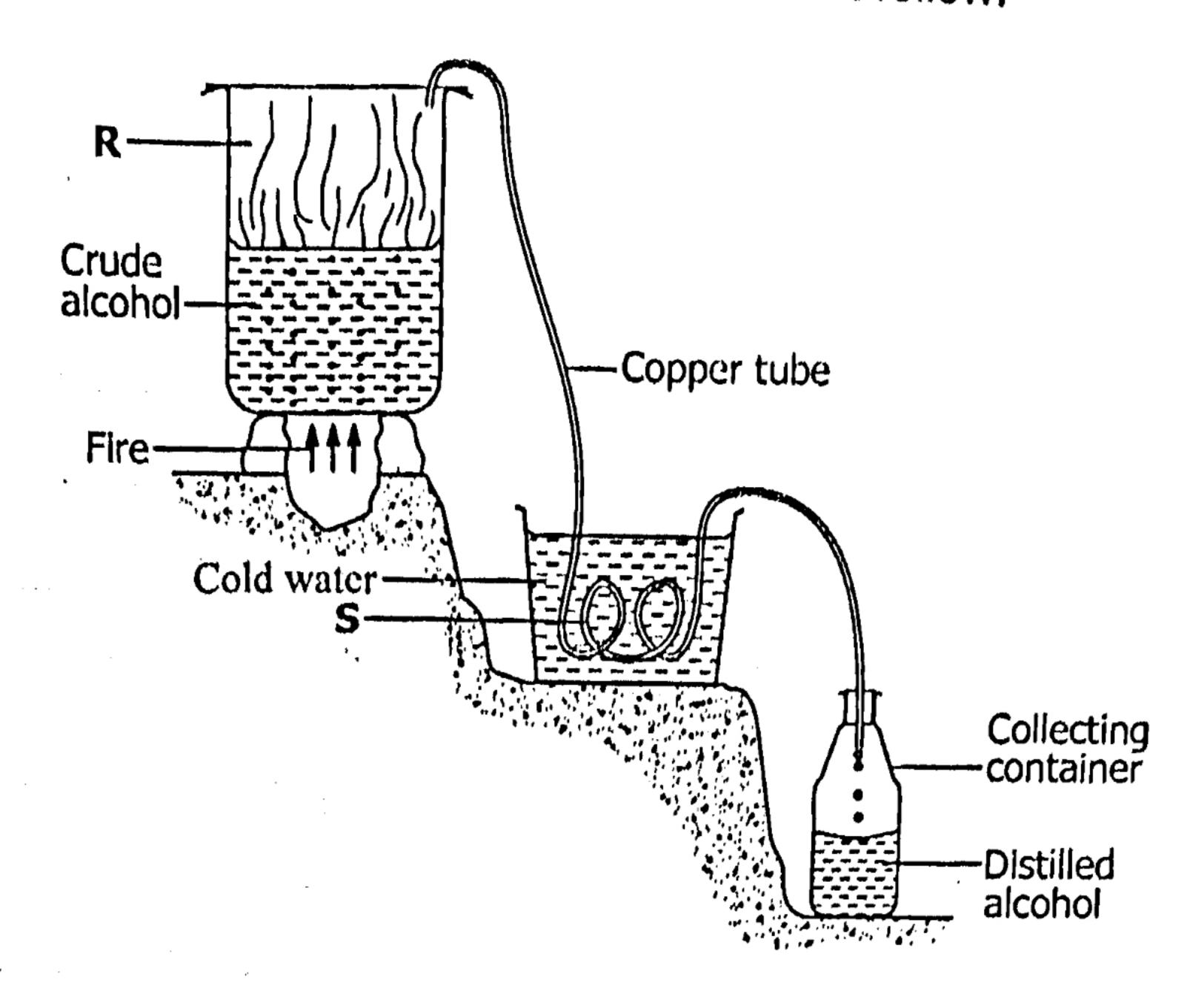
		(ii) Beak:	
		······································	boak
		Give any one example of a domestic bird with such type of and foot.	
			ver

49.	(a)	Give any one way in which each of the following elements of Primary Health Care (PHC) is important in a community.
		(i) Food and nutrition:

		(ii) Maternal and child health:
		······································
	(b)	Identify any two ways of giving health education to a community
		(i)
		(ii)
50.	(a)	Apart from planting crops in rows, give another method of planting crops.

	(b)	Give any two advantages of planting maize in rows.
		(i)
		(ii)
	(c)	State any one way in which the use of chemicals on a farm can be dangerous to a crop farmer.
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		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

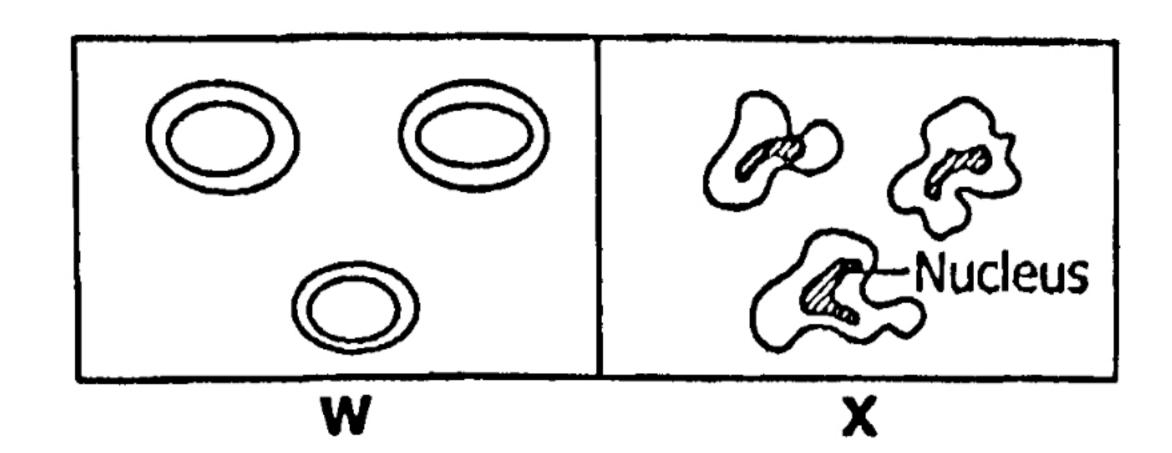
51. The diagram below shows the distillation method of making alcohol. Study and use it to answer the questions that follow.



(a)	Identify the physical changes taking place;		
	(i)	at part marked R	
		· ••••••••••••••••••••••••••••••••••••	
	(ii)	in part S .	
(b)	Give one reason why the container with crude alcohol should be properly sealed.		
	•••••	•••••••••••••••••••••••••••••••••••••••	
	******	······································	
(c)	Give	the function of the copper tube in the method shown above.	
	• • • • • • • •		

52.	(a)	overpopulated areas.			
		(i)			
		(ii)			
	(b)	Mention any two ways in which collecting information on human population helps to address health problems in a community.			
		(i)			
		(ii)	•••••••••••••••••••••••••••••••••••••••		
53.	(a)	Give any two	ways in which plants support human life.		
		(i)			
		(ii)	***************************************		
	(b)	Mention any two ways in which humans can conserve plant life.			
		x	***************************************		
54.	(a)	Identify any t	wo characteristics of the female anopheles mosquito a good vector for malaria.		
		(i)	***************************************		
		(ii)			
	(b)				
		(i) Pouring	oil on stagnant water.		
		•••••••			
			·		
		••	under a mosquito net.		
		*********	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

55. The diagrams below show the structure of different blood cells in the human body. Study and use them to answer the questions that follow.



(a)	Name the blood cell marked X.		

(b)	Give the function of the blood cells marked:		
	(i) W		
	(ii) X		
(c)	Identify any one disease which destroys blood cells W.		
	••••••••••••••••••••••••••••••••		