## STEM EXAMINATIONS BOARD

## PRE-PRIMARY LEAVING EXAMINATION SET XI, 2023 INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random No.	Personal No

Candidate's Nam	ne:	 		•••••
			The state of	
Candidate's Sign	ature:	 	• • • • • • • • • • • • • • • • • • • •	********
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 8
   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 work written in pencil other than graphs and diagrams will not be marked.
- 5. Unnecessary changes in your work and handwriting that cannot easily be read 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	1,1	7
53 - 55		
TOTAL		

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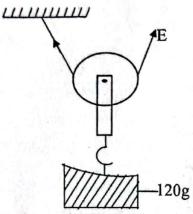
Turn Over



SECTION A: 40 MARKS
Questions 1 to 40 carry one mark each.

1. < 1	Name any one animal which moves by crawling.
	To the grown farmers control pests in their gardens?
3.	Give any one role of children in promoting immunisation in their communities.
4.	State any one reason why viral diseases among cattle are dangerous.
5.	How can poisoning among children be prevented?
	The diagram below shows a musical instrument. Study and use it to answer the question
	that follows.
	$\mathcal{J}$
1	StringsStrings
١.	
6.	How does sound produced by string L differ from the one produced by string M?
7	Which body part makes the human body aware of temperature change in the
7.	environment?
8.	State the primary source of energy in the environment.
. 9.	Why does sun drying keep food safe for a long time?
10	. Name the state of matter in which heat travels slowest.
. 11	. Why does a person suffering from cholera become dehydrated?
12	
	그는 얼굴한 그리스 회사에서 가는 그들은 말이 그 아니다. 얼굴하는데 있었다. 그리고 있는 그 사람이 되는 것이라는 것이 없다는 것이 없었다. 그렇게 되었다.

The diagram below shows a simple machine. Study and use it to answer the question that follows.



13. How much effort is need to raise 120g using the above machine?

14.	State the role of oxygen during seed germination.
15.	Give any one social problem among the young people.
16.	State the difference between spiders and houseflies.
17.	Why is the bedrock of the soil profile unable to support plant growth?
18.	Which set of teeth develops first in human beings?
19.	How do houseflies obtain food in the environment?
20.	State one role of worker bees in a hive.
21.	How do bacteria reproduce?
22.	Which part of the skeleton protects the reproductive organs in female human beings?

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The diagram below shows a tool used to clean the environment. Study and use it to answer questions 23 and 24.



23.	Name the tool shown in the diagram above.			
24.	How does the tool above promote sanitation?			
25.	State the function of root nodules in flowering plants.			
26.	How is the ileum adopted to food absorption?			
27.	State any one effect of biological change in the environment.			
28.	How does clearing bushes around homes help to control vectors?			
29.	Give any one difference between a ray and a beam of light.			
30.	Which breed of goats is purposely kept for its good quality fur?			
31.	Mention any one activity farmers carryout during a dry season.			
32.	Why does blood pass through the liver during circulation?			
	The diagram below shows an experiment. Study and use it to answer the question that follows.			
	Water  O 0 0  Air bubbles  Soil			
33.	What does the experiment show about soil?			

	State one sign of sexual maturity among adolescent girls.					
	Which material is used to dry the skin after bathing?					
	Give one natural process which increases carbon dioxide in the environment.					
	Why do objects behave different when put in water?					
	State the use of a methylated spirit in giving first aid for cuts.					
	Why does the Government carryout demography.					
	How	is the reproduction in whales different	from that of fish?			
	••••••					
		SECTION B: 6	0 MARKS			
		(Questions 41 to 55 carr	y four marks each.)			
•	(a)	State the cause of kwashiorkor among	human beings.			
		Give two signs of kwashiorkor in hum	[11] [1] [1] [1] [2] [2] [3] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4			
	(ii)	) i)				
		(c) Give the best way of preventing kwashiorkor among human beings.				
2.	The table below is about the major organs of the body and their functions. Complete it correctly.					
		Organ	Function			
	(i)	The brain	,			
	(ii)		Pumps blood all around the body			
	(iii)	The lungs				
	(iv)		Filtering wastes from the body			
	THE RESERVE					
). }.	(a)	Which disease affect both Rabbits and				

(i)	State any two signs of snuffle disease in rabbits.
(1)	다. 프로그램의 그림 사용도 하면 이번 경제를 가고 있다. 이번 사용 전에 되면 하다 그런 그런 그리고 되었다. 그는 그는 그리고 있다. 그런 그리고 있다는 점점 중요 중요하다 하다. 그는 그는 그
(ii)	
	- I I I I which courses cores and wounds on the care.
	Give the rabbit disease which causes soles and wounds or
(a)	Which non metallic conductor is used in dry cells?
	Why is dry wood unable to conduct electricity?
(b)	Why is dry wood unable to conduct electricity?
(c)	Apart from dry wood, state two substances which do not allow electricity to go
	through them easily.
(i)	
(ii)	
(a)	What are Essential drugs?
(b)	State any two characteristics of essential drugs.
(i)	
(11).	
(c)	Give any one essential drug.
••••	
(a)	Which group of birds have webs on their feet?
(b)	State the function of the webs to the birds above.
·····	
The same of the	Give any two birds which have webs on their feet.
(111)-	
().	
The	diagram below shows a ray of light travelling from air to water. Study and use
The	diagram below shows a ray of light travelling from air to water. Study and use wer questions that follow.
The	diagram below shows a ray of light travelling from air to water. Study and use is wer questions that follow.  J Normal
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The	Normal Air 500 Water

,	of the angle marked i on the	diagram.	
		j jan o 'e jar ge	
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	and the state of the state of		
	eristics of physical changes.		
11)		Langette from physical changes	
		benefits from physical changes.	
	······		
	and use it to answer question.		
Part of air	Air breathed in	Air breathed out	
Oxygen	K	15%	
Nitrogen	78%	78%	
a 1 11 11	0.03%	5%	
Carbon dioxide	0.0370		
L			
L	of air is represented by letter		
(a) What percentage (b) Why does the per	of air is represented by letter	K in the table above?	
(a) What percentage (b) Why does the per (i) Nitrogen remain	of air is represented by letter reentage of; the same in the air we breath	K in the table above? e out?	
(a) What percentage (b) Why does the per (i) Nitrogen remain	of air is represented by letter	K in the table above? e out?	
(a) What percentage (b) Why does the per (i) Nitrogen remain (ii) Carbon dioxide in	of air is represented by letter reentage of; the same in the air we breath	K in the table above? e out?	
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51.	(a)	Name the parts marked;			
	(i)	R			
	(ii)	S Lad C important	to a plant?		
	(b)	How is part marked S important			
	(c)	Which type of stem is shown in			
52.	(a)	(a) Where does selective re-absorption of useful substances take place in the kidneys?			
		``			
	(b)	Why do human beings sometime			
	······	•••			
	(c)	Give two components of urine.	,		
	(ii)				
	()				
3.	(0)	State true prestical application o	f filtration in the anvironment		
э.		State two practical application o	여름 이렇게 하는데 그러워 이렇게 하는 점에 대학 때문 이미요를 위해 된다. 설계를 모든다면 하는 그를 사용하는데 그리고 그를 보고 있다.		
			vays of making dirty water clean.		
	(ii)		•••••••••••••••••••••••••••••		
4.					
٦.	Iviate	h elements of Primary Health Ca			
	-	Element (s)	Benefit (s)		
	(i)	Food and nutrition	Saves lives of casualties		
	(ii)	First aid	Reduces infant mortality rate		
	(iii)	Immunisation			
	()		revents food deficiency diseases		
	(iv)	Maternal and child health care	Protects children against immunisable diseases		
	(i)				
	(i)	Food and nutrition			
	(11)	rust alu	그들고 있었다. 그 이번에 조심하였다. 아이지 하면 다른데, 그리고 그리고 그리고 그렇게 되면 생활하려면 하다.		
٠.					
55.	(a)	(a) Which two liquids are used in maximum and minimum thermometer?			
	(i)	(i)			
	(ii)	(ii)			
	(b)	(i)			
	(c) Name any one place where a maximum and minimum thermometer i found.				
	•••••	***************************************	inermometer i found.		
			***************************************		