STEM EXAMINATIONS BOARD

PRE-PRIMARY LEAVING EXAMINATION SET III, 2022 INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

R	andom No.	Personal No.	
		g using a Title	ing in our ga

Candidate's Na	me: .							 	
Candidate's Sign	nature	e:		1.04 %	Seat State		1 2 6 1 7	 	
District ID No:	11.000	es,418,	00	120	Marie 17	Description of the second			

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 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.

On No	Marks	EVP'S NO
Qn. No.	Marks	EXR'S NO.
1-10	Wite early	Stringer Shift
11 - 20	-17	
21 - 30		ou say say but a
31 - 40		E TIME OF AND A
41 - 43	· Formula	o array doin //
44 - 46	status de la	Tana Garden
47 - 49		
50 - 52		
53 - 55	.11.41	
TOTAL	No. of the	- x - spirit

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1.	
2.	
3.	State the function of incisor teeth in the mouth.
4.	Give any one cause of convulsion among human beings.
5.	Why is tobacco referred to as an annual crop?
6.	Name any one process which takes place in the mouth during digestion.
7.	Give one way guava seeds are adapted to animal dispersal.
8.	Which type of soil erosion happens when rain drops fall on to the bare soil with force?
9.	Name the liquid part of blood.
10.	Give the function of the Hilum to a bean seed.
11.	Write down any one string musical instruments.
12.	State any one characteristic of tuber crop pests.
13.	What happens when clouds of different charges rub against each other?
4.	Write down any one benefit of proper posture to the human body.
5.	Which germ causes AIDS in human beings?
	The diagram below shows an experiment carried out by pupils. Study and use it to answer question No. 16.
	Water
	Bubbles
6.	What does the experiment above prove about soil?

17.	Give any one disease that affects both Rabbits and poultry.
18.	How do carbon dioxide and water vapour get out of the human body?
19.	Apart from parallel beam, give one other type of beam of light.
	The diagram below shows an insect. Study and use it to answer question number 20.
· ·	Head Abdomen X
20.	Give the use of the structures marked X to an insect.
21.	Write one reason why human beings should bathe regularly.
22.	State the benefit of constructing goat houses with a slanting floor.
23.	Name any one disease that attacks the lungs.
24.	why are the images formed in the human eye real?
25.	Which deficiency disease causes bleeding gums in human body?
26.	How do tortoises protect themselves against enemies?
27.	A block of mass 40g displaces 100c of water. Find its density.

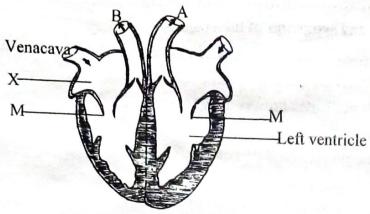
The diagram below shows a simple machine. Study and use it to answer question 28.



28	class of levers is demonstrated when using the machine shown above
29	Why are water borne toilets not common in rural areas?
30.	Give one condition which favours the growth and multiplication of D
31.	Give one way of saving wood firelet be
32.	State the benefit of recycling metallic scrapping the
33.	What do farmers benefit from practicing Agre forests 8
34.	Why do mechanics apply grease in the moving parts of
35.	Give one way humans use wool
	Which type of changes helps in the formation of rais 5.119
	What happens to an electromagnet when the circuit is had a
38.	State the danger of prolonged use of agro-chemicals on soil.
	Which immunisable disease affects the brain?
•	live one plant with fibrous root system.
	SECTION B: 60 MARKS
	(Questions 41 to 55 carry four marks each.)
41. (a)	How long is the gestation period of a cow?
(b)	Why do farmers cross breed their cattle?
	Give any two advantages of steaming up in cattle.

42.	(a) Give two ways tubercules:
	(a) Give two ways tuberculosis spreads among human beings.
	(i)(ii)(b)(b)
	(b) Write down two signs
	(b) Write down two signs and symptoms of tuberculosis.
	(i)(ii)
43.	
	(a) Name the insect which pollinates flowers at night
	(b) Why are netala of
	(b) Why are petals of some flowers brightly coloured?
	(c) Give two characterists
	(c) Give two characteristics of flowers pollinated by insects.
	(i)(ii)
	(ii)
	The diagram below shows an instrument which works on the laws of reflection of light.
	Study and use it to answer question 44.
	Eye Mirror
44.	(a) Name the instrument shown in the diagram above.
	(b) State the principle on which the instrument named in (a) above works on.
	(c) Give two uses of the instrument named in (a) above.
	(i)
	(ii)
15	(a) Why is quinine called an essential drug?
15.	(a) Wily is quilline canculant cosciliar drug:
	(b) Apart from quinine, give any two examples of essential drugs.
	(i)
	(ii)
	(c) Write down one quality of essential drugs.

The diagram below shows the structure of the human heart. Study and use it to answer the questions that follow.

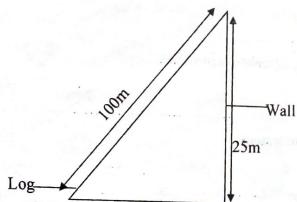


46	(a)	Name the blood vessels marked;
	(i)	A
	(ii)	B
	(b)	Give the function of the structures marked M.
	(c)	Which type of blood is passes through the chamber marked X?
47.		Where does fertilization take place in the human reproductive system?
	(b)	Give the role of the amniotic fluid during pregnancy.
	(i)	Write down two signs of pregnancy in human beings.
48.	(a)	Name two types of stems.
	(ii).	Give any two war 1
	(i)	Give any two ways numans use plant stems.
49.	(a)	How does prolonged breastfeeding help in child spacing?
	(b) (i)	Apart from child spacing, give three benefits of breast feeding to the mother.
	' '	***************************************
	(iii)	

50. The table below shows groups of birds, examples and the type of food. Fill in the missing information.

Group (s)	Example (s)	Type of food
Swimming birds	(i)	The state of the s
(ii)	···· Chicken	Worms
Scavenging birds	Crow	(iii)
(iv)	···· Parrot	Insects

51. The illustration below shows a log of wood leaning against the wall. Study and use it to answer the questions that follow.



- (a) Name the type of simple machines illustrated above.
- (b) How do workers ensure application of less effort when using the above machine?
- (c) Calculate the mechanical advantage of the machine shown above. (2 marks)

52. (a) Write down two major organs of the human body found on the head.

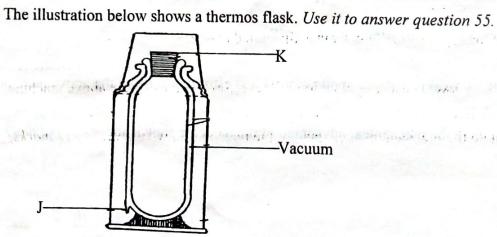
(b) Give any two functions of the brain in the human body.

(i)......(ii).....

53.	The table below shows elements of Primary Health Care (Y) and their ben	ents (z.)

it carefully.	4.455
Elements (Y)	Benefits (Z)
First aid	Controls population
Maternal and child health care	Saves lives of casualties
Family planning	Controls waterborne diseases
Water and sanitation	Reduces infant mortality rate
	First aid Maternal and child health care Family planning

	Select from List Z the correct benefits of the elements and write them in the space below
	(i) First aid
	(ii) Maternal and child health care
	(iii) Family planning
	(iv) Water and sanitation
54.	(a) Give two examples of anti-social behaviours in society.
	(i)
	(ii)
	(b) State any two causes of truancy in schools.
	(i)
	(ii)



		The state of the s
5 5 .	(a)	Name the parts marked;
	(i)	J
	(ii)	K
	(b)	How does the vaccum prevent heat loss or gain in a thermos flask?

(6)	Give one reason why	thermos flasks are not common in some homes.