THE SIPRO PRE - PLE SET I 2023

INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

	Random No.			Personal No.	
Index No.					
Candidate's Name:					
Candidate's Signature: _					
School Random No:					
District:					

READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. This paper has two sections: A and B.
- 2. Section A has 40 questions (40 Marks).
- 3. Section B has 15 questions (60 Marks).
- 4. Attempt all questions in both sections. All answers to both sections **A** and **B** must be written in the spaces provided.
- All answers must be written in blue or black ball point pens or ink. Only diagrams and graph work must be done in pencil.
- 6. Unnecessary alteration of work will lead to loss of marks.
- 7. Any handwriting that cannot be easily read may lead to loss of marks.
- 8. Do not fill anything in the boxes indicated:

"FOR EXAMINER'S USE ONLY"

For Examiner's Use Only;

Qn. No	MARKS	INITIALS
1-10		
11 - 20		
21 -30		
31 -40		
41 - 43		
44 - 46		REPORT N
47 - 49		
50 - 52		
53 - 55		
Total		

Please turn over



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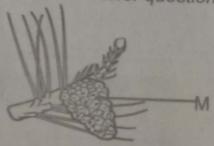
SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

- 1. Name the type of bacteria that fixes nitrogen in the soil.
- 2. Why do the lungs expand when one breathes in?
- 3. How are images formed in a plane mirror different from those formed in a pinhole camera?

The diagram below is of a structure of a non-flowering plant.

Study and use it to answer questions 4 and 5.



- 4. Name the group of non-flowering plants with the structure labelled M.
- 5. How is structure marked M useful to the above mentioned group of non-flowering plants?
- 6. How best do livestock farmers ensure that the immunity of an inborn calf is boosted?
- 7. How are beetroot plants similar to carrots in terms of food storage?
- 8. Mention one method used to extract honey from honey combs

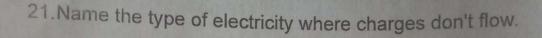


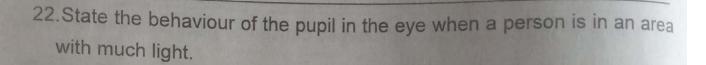
	ife on land.
10.In whi	ich way does soil erosion affect crop production?
11.Name meat.	e the intestinal worm a person gets through eating undercooked
12.Menti	on any one fungal skin disease caused by poor personal hygiene.
	any one way rearing poultry contributes to the control of shiorkor in infants.
14.How	does slashing of tall grass control snake bites in the community?
15.Menti	ion any one living source of light energy in the environment.
16.Find 12cc.	the density of a stone whose mass is 48g and has a volume o
17.Why	are we not advised to use soap while brushing teeth?
	one way crop farmers can ensure that seedlings get adapted to onditions of the main garden.



19. Why should	people use	biogas for	cooking	other than	firewood?
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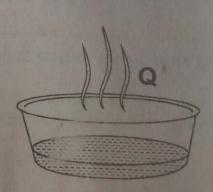
20. How does hanging	of perches in	a poultry	house	control	egg	eating
among poultry?						





The diagram below shows two plastic containers with water of the same temperature. Study and use them to answer questions 23 and 24.





23.In which of the two plastic containers will the water cool first?

24. Give a reason to support your answer in 23 above.

25. State the reason why a person standing in a swimming pool appears to be shorter than their real height.

26. Why can't one pick chalk dust using a magnet?



27. How is wind useful in increasing the population of plants in an area?
28.Name the group of arthropods with a hard shell, soft body and jointed legs.
29.In which way do maize plants prevent cross pollination?
30.State any one economic importance of plants to farmers.
31.Name the type of bee with a well developed ovipositor.
32. How is eating while talking dangerous to the respiratory system?
33. Which activity in the cleaning of clothes prevents colour stains in light coloured clothes?
34. How is regular dipping of cattle useful in the control of anaplasmosis
35. How is the role of mercury different from that of alcohol in a six's thermometer?
36. Give one way a domestic fowl benefits from its spur.

The diagram below is of a bird's beak. Study and use it to answer questions 37 and 38.



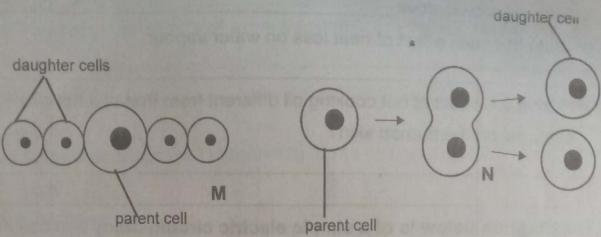
amin's
7. Name the kind of food eaten by the bird with such a beak.
3. To which group of birds does the bird with such a beak belong?
How does smoking prevent a fish from going bad?
.How is trichomoniasis similar to gonorrhoea in the way they are spread among people?
SECTION B: 60 MARKS
Questions 41 to 55 carry four marks each.
a) Which class of food performs the following roles in the body? i) building the body.

b) State any one disaster that causes poor feeding among people in a family.

c) Mention any one measure taken to control poor feeding in a home.

ii) protecting the body against diseases

42. The diagram below is of modes of reproduction in single celled organisms. Study and use it to answer the questions that follow.



- a) Name the modes of reproduction marked with letters M and N.
- i) M
- ii) N
- b) Name one example of an organism that reproduces in the way marked with letter M.
- c) State any one danger of the organisms that reproduce using mode N in the above diagram.
- 43.a) Give any two ways pruning of crops promotes the production of high yields in the growing of perennial crops.
 - 1)_
 - b) Give any one garden tool used for pruning crops.
 - c) Mention any one way of controlling crop diseases without using chemicals.



ii) light a charco	al stove
	n effect of heat loss on water vapour.
c) How is the eff	fect of hot cooking oil different from that of a hot piece of he human skin?
The diagram b	elow is of a simple electric circuit. Study and use it lestions that follow.
	\\\/
	K
	+
a) Name the so	urce of current shown in the above diagram.
b) State two en	ergy changes that occur in part K.
)	
i)	



c) State the disorder of one of the excretory organs caused by eating a lot of uncooked salt.
50.a) State the importance of the following items to a person bathing;
i) bathing sponge_
ii) soap
b)Give any two other activities carried out to promote personal hygiene where water is not used.
ii)
51. The diagram below is of two living things that live in the same environment. Study and use it to answer the questions that follow.
a) Name the gases represented by letters X and Y. i) X
ii) Y

from excha	nge of gases.
2)	
ii)	
a) Mention a	ny two examples of natural changes in the environment.
**	
ii)	
b) Give two	ways of managing floods in a given area.
ii)	
	to obastroom to
THE UIGUIG	
and use the	ns below are of two groups of simple machines. Study on to answer the questions that follow. 6m
and use the	6m 6m
and use the MM a) Identify the and M.	6m 6m e type of simple machines represented in the diagrams L
and use the MM a) Identify the and M.	6m 6m e type of simple machines represented in the diagrams L
and use the MM a) Identify the and M.	6m 6m e type of simple machines represented in the diagrams L
and use the	for the two simple machines would you use to raise the load
and use the M a) Identify the and M. i) L ii) M b) Which of	6m 6m e type of simple machines represented in the diagrams L

ii)		
b) S	tate any two advantage	s of vegetative propagation methods.
i)		
ii)		
		nows parts of the reproductive system.
		ce of the parts in the process of
repr	oduction in their wrong	order.
	A: Parts	B: Importance of the parts
	i) testes	produce ova.
	ii) ovaries	produce sperms.
	iii) oviduct	stores manufactured sperms.
	iv) epididymis	It's where fertilisation takes place.
	provided below.	ct importance of the parts and write them in the
,	ies	
	100	
ii) ovar		
ii) ovar	uct	