THE SIPRO PRE-PLE SET II 2022

INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

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READ THE FOLLOWING INSTRUCTIONS CAREFULLY:

- 1. This paper has two sections: A and B.
- Section A has 40 questions (40 Marks).
- 3. Section B has 15 questions (60 Marks).
- 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.
- Unnecessary alteration of work will lead to loss of marks.
- Any handwriting that cannot be easily read may lead to loss of marks.
- Do not fill anything in the boxes indicated:

"FOR EXAMINER'S USE ONLY"

For Examiner's Use Only:

PAGES	MARKS	INITIALS
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THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA

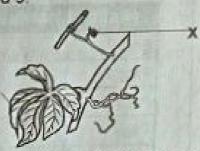
PUBLISHERS OF THE SIPRO TEACHERS GLIDES, LEARNER'S WORKBOOKS & HOLIDAY ASSIGNMENTS

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

- 1. Name the vector responsible for the spread of both trachoma and diarrhoea.
- Mention the component of air which supports rusting of metallic objects.
- 3. Write down one function of the ovary in the human reproductive system.
- Give one cause of anti-social behaviour in a school community.
- 5. Why does sugar disappear when put in water?
- 6. State the importance of a strip cup to a dairy farmer.
- Name the body sense organ that enables us to detect tasty food.

The diagram below shows a method of climbing. Study and use it to answer questions 8 and 9.

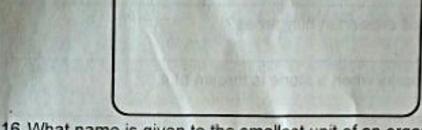


- 8. Name the part marked with letter X on the diagram above.
- 9. How important is the part you have named in No. 8 above to the plant?
- 10. What safety measure can be taken by electrical engineers to control short circuits in an installation?
- 11. How are red blood cells important in the human body?
- 12. Which property of magnets is seen when a magnet is dropped in iron filings and they settle mostly at the ends?





- 13. Name the dangerous gas found in tobacco smoke.
- 14. How best can cattle farmers improve the quality of their local breeds of cattle?
- 15. In the space provided below, draw a beak of a nectar sucking bird.



- 16. What name is given to the smallest unit of an organism?
- 17. Apart from brushing and rinsing, name any other activity done by people to promote oral health.
- 18. Mention one way pineapples can be propagated.
- 19. Give the reason why people burning bricks cover them with mud.
- 20. Why is a person suffering from gonorrhoea advised to go with his/her sexual partner for treatment?
- 21. Give one traditional method of preserving food.
- 22. Name the reproductive cell shown in the diagram below.



- 23. How are mammals similar to birds in terms of reproduction?
- 24. State the type of bee with a pollen basket.
- 25. Why is a spider regarded as an arachnid?

26. Give any one sign of brain damage caused by alcoholism to an individual.
27. Why is the trachea made up of rings of cartilage?
28. Name the non-metallic conductor of electricity found in a dry cell.
29. How does terracing control soil erosion in hilly areas?
30. Give one reason why a dog barks when a stone is thrown at it.
31. State one way of managing fire outbreaks in schools.
The diagram below shows part of a flower. Study and use it to answer questions 32 and 33.
32. Name the part of a flower shown in the diagram above.
33. Which type of plant gametes are produced by the flower shown in the diagram above?
34. Why is it not advisable to use fresh materials when mulching the garden?
35. How can heat transfer by conduction be put into practice at home?
36. What proves that light energy travels faster than sound energy on a rainy day?
37. Name the class of food whose chemical digestion begins in the duodenum.

5 17 SERVICE	low are bacteria useful in the formation of biogas?
40 3	State one in-
	State one importance of starting a Young Farmer's Club in a school.
	SECTION B: 60 MARKS
4.4	Questions 41 to 55 carry four marks each
	retina
) iris
t) State any one way the pinhole camera is similar to the human eye in the way they function.
9	Name the eye disease caused by poor feeding.
2. a) Write any two factors considered when selecting a good site for setting a hive.
ii)	
b	Give any one way
i)	bees benefit from a coffee plantation nearby.
ii)	coffee plants benefit from an apiary nearby.
i. Ti	ne diagram below shows an experiment carried out by the science club in school. Use it to answer the questions that follow.
	A B
F	water water water water

b) How is painting important to the nails in setup A?

d) A	hich type of change did the nails in setup B undergo after a night?
ab	part from water, what other condition enabled nails in setup B undergo the ove mentioned change?
14. a) 5	State the importance of
F	State the importance of each of the following First Aid Kit in administration
i) s	plints
ii) :	safety pin
b) S	State the difference between a burn and a scald.
	burn and a scald.
c) (Sive one way you can help a friend with a burn at home.
45.The	diagram below shows a human kidney. Use it to answer the questions follow.
that	follow. Use it to answer the questions
a) 1	Name parts labelled P and Q.
i) P	Parts labelled P and Q.
ii) (
b) V	Vhat important process takes place in part labelled O?
	process takes place in part labelled O?
c) T	o which body organ does part R lead N?
(0.0)	What term refers to the scattering of seeds from a parent plant to a well colonised area?
b) 1	Write any two adaptations of and the
i)	Write any two adaptations of seeds to being scattered by animals.
-	dis.
ii)	THE REPORT OF THE PARTY OF THE

(i) tortoise	wing animals protect itself against enemies?
(ii) wasp	
b) Which characteristic of livin dog for protection?	g things is proven when a rabbit runs away from a
c) Apart from the one mentione living things.	ed in (b) above, state one other characteristic of
48.a) Give any one example of	wood fuel commonly used in our environment.
b) State any two ways of cons	serving energy from wood fuel
1)	serving energy from wood fuer.
ii)	DI-SULTING DE STORE DE
c) Why are plants called renev 49. Match the simple machines	in list A to their groups in list B correctly.
screw driver	levers
beam balance	wedges
staircase	wheel and axles
machete	inclined planes
i) screw driver	
ii) beam balance	
iii) staircase	
iv) machete	



people, apart from h	ortance of the form of energy mentioned in 50 (a) above to earing.
ii)	
	ele store the form of energy mentioned in (a) above.
. The diagram below s	shows a method of magnetisation. Use it to answer the
questions that follow.	
a) How do the iron nail	s shown in the diagram above become magnetised?
b) Name pole marked	with letter K.
	ne is given to the magnet made using the above method?



52.	a) Name the kind of feeding in babies that helps to boost the body immunity.
	b) Mention any two reasons why babies should be weaned.
	ii)
	c) Why should babies be fed on soft foodstuffs during the weaning period?
53.	a) State one farm practice that helps to control external parasites in cattle.
	b) What scientific name is given to chemicals used to control external parasites in cattle?
	c) Give two effects of external parasites to livestock
4.	The diagram below is of a common animal. Use it to answer the questions
	that follow.

a) Name the part labelled with letter V.

	To which group of vertebrates does the animal shown in the diagram above belong?
d)	How is fertilization in the animal above different from that in a chameleon?
a)	Why does photosynthesis take place during day time but not at night?
	Weight a wonth of the artistration and a second a second and a second and a second and a second and a second
b)	Write the two raw materials needed for photosynthesis to occur.
	Write the two raw materials needed for photosynthesis to occur.

