

THE SIPRO PRE - PLE SET III 2022

INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.

Random No.						Personal No.		

Candidate's Name: _____

Candidate's Signature: _____

School Random No. _____

District ID: _____

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.
5. 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:

PAGES	MARKS	INITIALS
Page 1		
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Page 8		
Page 9		
Total		

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THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA

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SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the body sense in human beings that makes one tell whether the tea is hot or warm.

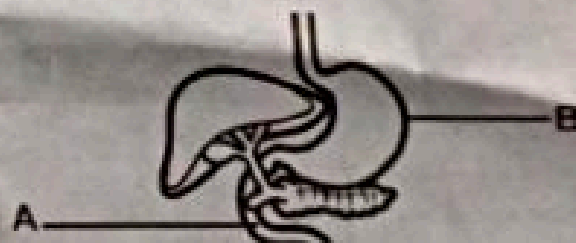
2. Name **one** cold blooded vertebrate that breeds in water and lives on land.

3. Mention any **one** way in which a physical change is different from a chemical change.

4. State **one** way an earthworm benefits from the soil.

5. Write down the vector that spreads yellow fever.

The diagram below shows part of the digestive system. Use it to answer questions 6 and 7.



6. Name the class of food whose chemical digestion begins in part labelled A.

7. State any **one** function of part marked B.

8. Give **one** importance of a web to a spider.

9. Which structures enable geckos move upside down on ceilings without falling?

10. Why is an irish potato grouped under stem tubers?



11. Name the main cause of fainting in people.

12. In which way does blood clotting benefit a P.7 candidate who has just cut him/herself while sharpening a pencil?

The diagram below shows a type of injury common during sports activities. Use it to answer questions 13 and 14.



13. Name the type of fracture shown in the diagram above.

14. State any **one** sign of the fracture shown in the diagram above.

15. How are handles of cooking devices made to prevent them from burning the user while carrying them?

16. Which element of Primary Health Care helps to check on the population of a given community?

17. Why should adolescent girls abstain from early sex?

18. State **one** importance of propping in a banana garden.

19. Name the mineral element responsible for the formation of strong eggshells in birds.

20. State the commonest habit that leads to hookworm infestation in infants.



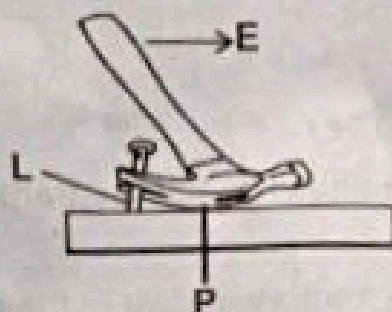
21. State one way in which plants depend on air in the environment.

22. Give the value of proteins in a person's body.

23. Which fungus is needed by drug manufacturing industries?

24. State the importance of the sun in a food chain.

The diagram below is of a simple machine. Study and use it to answer questions 25 and 26.



25. Name the simple machine shown in the diagram above.

26. To which group of simple machines does the one shown in the diagram above belong?

27. Give one characteristic of a compound leaf.

28. State one way in which the skin controls human body temperature on a cold day.

29. Which part of a dry cell forms the negative terminal?

30. Give any one solution to the problem of poor water supply in the community.

31. Give one importance of a spiral wall to a VIP latrine.

32. Mention one artificial source of light, that gives a divergent beam.



SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

41(a) To which type of vegetative propagation does the use of stem cuttings belong?

(b) Name any **two** examples of crops that are propagated by the use of stem cuttings.

(i) _____

(ii) _____

(c) Give **one** quality of a good stem cutting to be used for planting.

42(a) Name the major product obtained from rearing the following goat breeds:

(i) Mubende goat _____

(ii) Angora goat _____

(b) Write any **two** examples of equipment used to manage goats on a goat farm.

(i) _____

(ii) _____

43. The table below shows organisms in an environment. Study it carefully and answer the questions that follow.

A	B	C	D
HAWK	CHICKEN	MAIZE	FOX

(a) Why would you group maize in the table as producers?

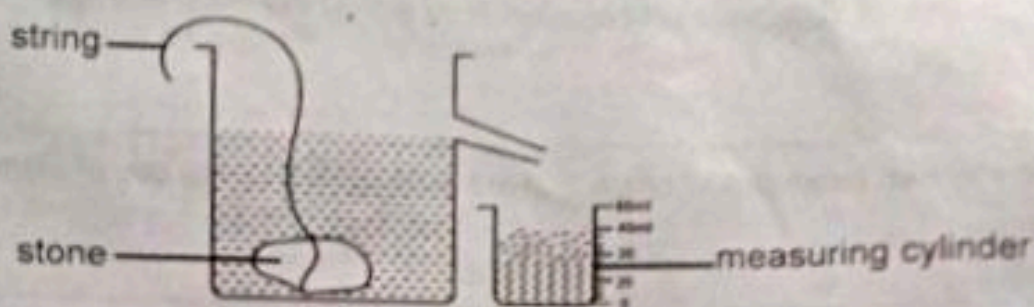
(b) Name the group of organisms missing in the table above.

(c) To which group of organisms does a hawk belong?

(d) Form a complete feeding relationship between the organisms shown in the table above.



The diagram below shows a method of finding the volume of irregular objects. Use it to answer questions 33 and 34.



33. Name the method of finding the volume of irregular objects shown above.
34. How important is the measuring cylinder useful in the method shown above?
35. Write **one** control measure done in schools to control the spread of COVID-19 among children.
36. Mention **one** cause of weather changes in the environment.
37. State what happens when wood is burnt under a limited supply of oxygen.
38. What type of reproduction do fish undergo?
39. Write **one** way of maintaining the human digestive system in a proper working condition.
40. How is the left ventricle of the heart well suited for pumping blood to the rest of the body parts?



44(a) Which characteristic makes sand soil have the best drainage?

(b) Write any **two** ways sand soil is useful to people.

(i) _____

(ii) _____

(c) Name the method of soil formation that is aided by movement of organisms.

45. Match the body processes in **list A** to their importance in **list B**.

List A

diffusion

sweating

respiration

accommodation

LIST B

enables formation of energy in the body.

permits the eye to focus nearby and distant objects.

eliminates excess salts and water from the body.

allows exchange of gases in air sacs.

i) diffusion _____

ii) sweating _____

iii) respiration _____

iv) accommodation _____

46(a) Give the reason why HIV/AIDS is regarded as a communicable disease.

(b) Name the immunisable disease that has similar signs and symptoms as HIV/AIDS.

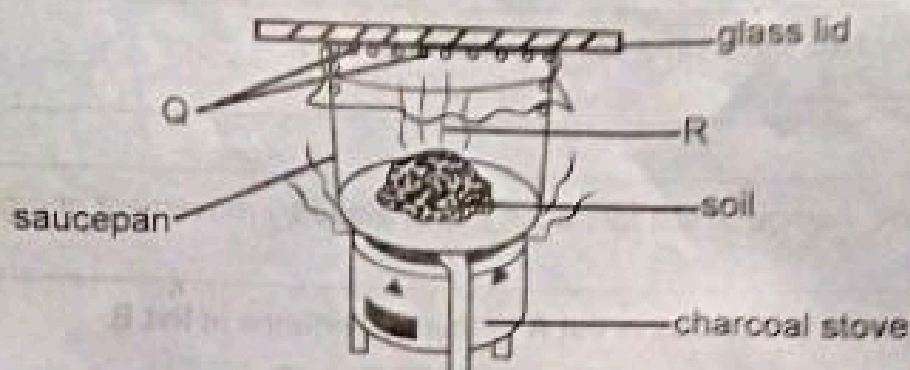
(c) Write any **two** ways a P.7 candidate prevents him/herself from getting HIV/AIDS.

(i) _____

(ii) _____



47. The diagram below is of an experiment about soil. Study and use it to answer the questions that follow.



(a) What does the above experiment show about soil?

(b) Name the parts marked with:

(i) letter Q

(ii) letter R

(c) How do substances Q form on the glass lid?

48(a) Why is water called a resource?

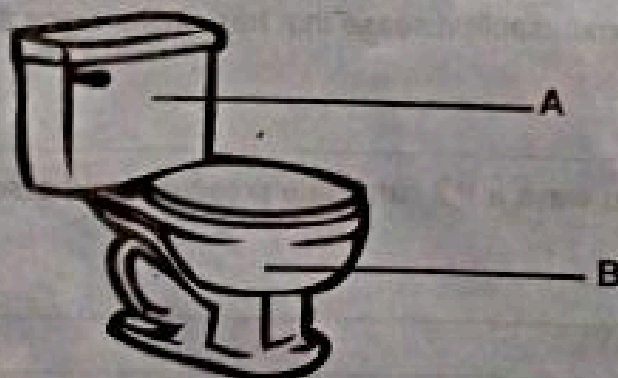
(b) In which **one** way is water important to:

(i) plants?

(ii) animals?

(c) Give **one** way water can be conserved in the environment.

49. The diagram below shows a type of latrine. Study and use it to answer the questions that follow.



(a) Name the type of latrine shown in the diagram above.

(b) Give the importance of part labelled A.

(c) State **two** disadvantages of using this type of latrine.

(i) _____

(ii) _____

50(a) Name the garden tool used to carry out these tree growing activities;

(i) digging stony areas _____

(ii) spacing tree seedlings _____

(b) Give **two** advantages of growing trees together with crops on the same piece of land.

(i) _____

(ii) _____

51(a) Give any **two** causes of alcoholism.

(i) _____

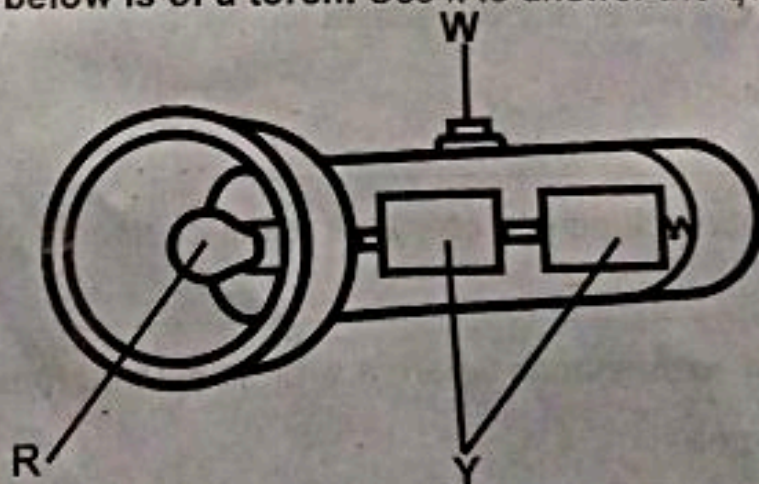
(ii) _____

(b) State any **two** effects of alcoholism to a family.

(i) _____

(ii) _____

52. The diagram below is of a torch. Use it to answer the questions that follow.



(a) Name the form of energy produced by part Y.

(b) State the importance of part W on a torch.



(c) Which energy change occurs in part R when the torch is in use?

(d) Give one reason why part R may fail to give light when part W is pressed.

53(a) Write any one sign of pregnancy in a woman.

(b) Mention two requirements of a pregnant woman.

(i)

(ii)

(c) State any one problem that results from teenage pregnancy to adolescent girls.

54(a) State what happens when a substance of density 2g/cc is placed in the container with water.

(b) Name two objects that behave in the same way as the substance in 54(a) above when placed in water.

(i)

(ii)

(c) Give a reason why water and the substance behave differently when put together.

55(a) Which process takes place in a cow as a result of insemination?

(b) Name the type of insemination where a syringe is used to deposit semen into the cow's vagina.

(c) State two advantages of the type of insemination mentioned in (b) above.

(i)

(ii)

