

THE SIPRO MID - TERM II EXAMINATIONS - 2024

PRIMARY SEVEN INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.

Random No.						Personal No.		

Candidate's Name: _____

Candidate's Signature: _____

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.
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;

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Total		

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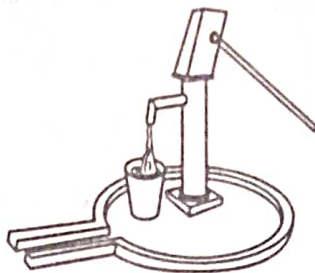
Questions 1 to 40 carry one mark each.

1. Name the class of food which repairs worn out body tissues.

2. State the way plants depend on animals during photosynthesis.

3. State any **one** way of keeping a **VIP** latrine clean after use.

The diagram below is of a common simple machine. Study and use it to answer questions 4 and 5.



4. Identify the group of simple machines to which the one shown in the diagram above belongs.

5. Use an arrow and letter **R** to label the part where the effort is applied on the simple machine above.

6. Mention any **one** disadvantage of prolonged use of artificial family planning methods.

7. Give any **one** example of a crop with nodules on its roots.

8. How is lack of vitamin **D** a danger to one's skeletal system?

9. State **one** way regular bathing improves the health of the skin.



10. Name the accident caused by shortage of oxygenated blood supply to the brain.

11. Mention any **one** example of a layer that makes up the soil profile.

12. How is the amount of water vapour in the atmosphere measured at a weather station?

13. State any **one** use of soap in the cleaning of clothes.

14. Name any **one** material used in the making of charcoal briquettes at home.

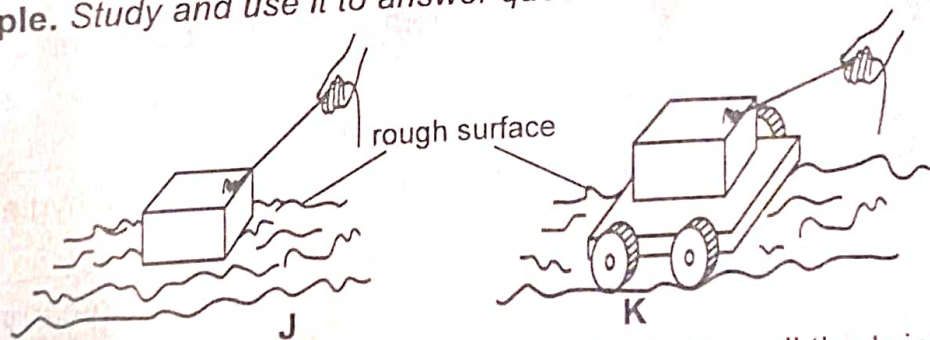
15. Mention any **one** sign that helps a goat farmer to know that her nanny goat is ready for mating.

16. State any **one** way lungs are suited for breathing in people.

17. Give **one** way of keeping one's beddings clean after use.

18. Mention any **one** way biological changes are important to living things.

The diagram below is of two bricks being pulled by two different people. Study and use it to answer questions 19 and 20.



19. Who of the two people above uses a lot of effort to pull the brick?

20. Give a reason to support your answer in number (19) above.



21. How is wringing an important step in the process of cleaning of clothes?

22. State the main reason why ready crops are harvested in dry seasons.

23. Mention any **one** way livestock farmers harm cattle on grazing fields.

24. Name the immunisable disease which affects the brain.

25. How is reproduction in mushrooms similar to that in ferns?

26. Give **one** way of controlling the dangers of alcoholism among school going children.

27. Name the method used to separate the different fuels in crude oil.

28. How are carrots different from cassava in the way they are propagated?

29. Apart from the use of hooks, give **one** other way plants with weak stems climb others.

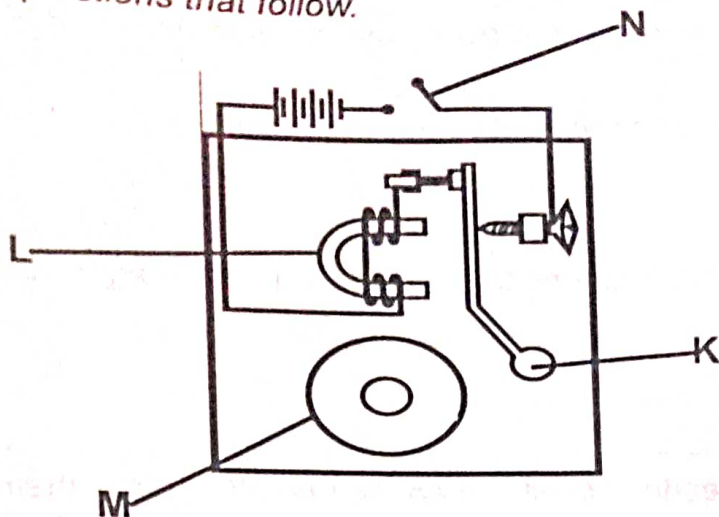
30. How do blood platelets prevent entry of germs into the body when one gets a cut on the skin?

31. Mention any **one** activity a school child can do to promote oral hygiene.

32. Calculate the Mechanical Advantage of a wheelbarrow used to carry a load of **1200N** using an effort of **400N**.



... is of a simple electric bell. Study and use it to answer the questions that follow.



a) Name the parts labelled with letters N and M.

(i) N _____

(ii) M _____

b) How is part labelled with letter K useful in the functioning of the bell?

c) Briefly explain what happens to part L when part N is pressed.

45. a) Give the method of obtaining coal from the ground.

b) State any **two** ways coal can be used as an energy resource.

(i) _____

(ii) _____

c) Apart from coal, name **one** other example of a fossil fuel.

46. a) Name the **two** main layers of the skin.

i) _____

ii) _____

b) Give **one** way the skin regulates body temperature on a cold day.

c) Name the skin disease which causes loss of hair and red round patches on the skin.



47. a) Name the type of pulley system which gives a mechanical advantage of one.

b) How does the above named pulley system simplify work?

c) Mention any **two** uses of pulleys in our daily life.

i) _____

ii) _____

48. a) Briefly explain what happens to the lungs and diaphragm when one breathes in;

i) lungs _____

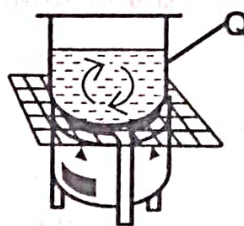
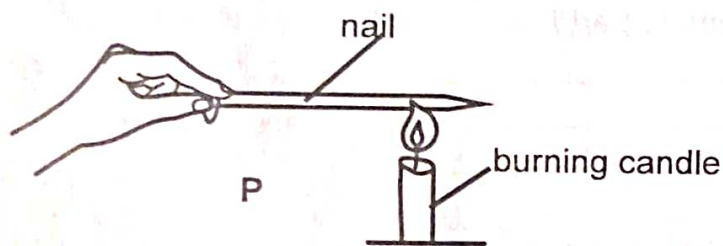
ii) diaphragm _____

b) Apart from the presence of cilia, mention **two** other ways the nose is adapted to its function during breathing.

i) _____

ii) _____

49. The diagrams below are of methods of heat transfer. Study and use them to answer the questions that follow.



a) Identify the methods of heat transfer labelled with letters Q and P.

(i) Q _____

(ii) P _____

b) Name the hygienic activity that requires the use of the method of heat transfer marked with letter P.

c) Why does the method of heat transfer marked Q occur in liquids and gases?



SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

41. a) Name the types of soil that have the following properties;

i) large and rough particles _____

ii) moderately sized particles and spaces _____

b) Mention the natural fertilizers obtained from house hold refuse like leftover food and peelings.

c) Apart from applying manure, give **one** other way of improving soil fertility.

42. a) Give any **two** ways dysentery spreads among people.

i) _____

ii) _____

b) How does untreated dysentery lead to dehydration in babies?

c) State any **one** way the spread of dysentery can be controlled in a home.

43. a) Mention any **two** examples of useful bacteria.

i) _____

ii) _____

b) State any **one** danger of bacteria to crop farmers.

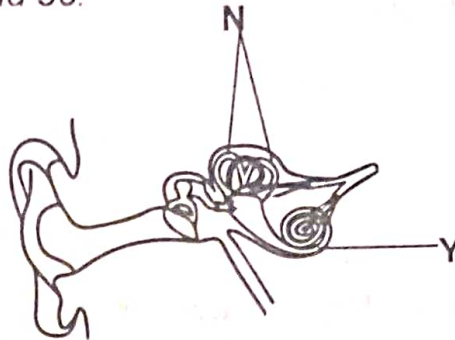
c) Give **one** way livestock farmers control the harmful effects of bacteria in their milk products.



33. State any **one** activity in the wet season done to reduce competition for soil nutrients among crops in a school garden.

34. Mention any **one** soil pollutant controlled through recycling wastes.

The diagram below is of part of the human ear. Study and use it to answer questions 35 and 36.



35. Name the part of the ear marked with letter Y.

36. How is part marked with letter N useful to a person walking along the road?

37. State the main reason why the handle of an iron box is usually made of wood.

38. Why do children in young farmer's club prefer rearing exotic rabbits to local breeds of rabbits?

39. Why are plants grouped under renewable resources?

40. State any **one** advantage of growing perennial crops.



50. a) How is the lifecycle of a mosquito different from that of a cockroach?

b) State the way a mosquito and a cockroach spread diseases;

i) a mosquito _____

ii) a cockroach _____

c) How does the use of insecticides control insect vectors in a home?

51. a) Name two examples of vaccines administered against Tetanus.

i) _____

ii) _____

b) Mention the body sites where the following vaccines are administered in babies;

i) BCG vaccine _____

ii) Hepatitis B _____

52. In the table below, part M shows the terms used in the study of measurements and part N shows their meaning in a wrong order.

M: terms	N: their meaning
mass	mass per unit volume
weight	amount of space occupied by an object
volume	gravitational force exerted on an object
density	amount of matter a body contains

Select from the table the correct meaning of terms and write it in the space provided below;

i) mass _____

ii) weight _____

iii) volume _____

iv) density _____



53. a) State the role of each of the following parts on a caged hutch;

i) wiremesh _____

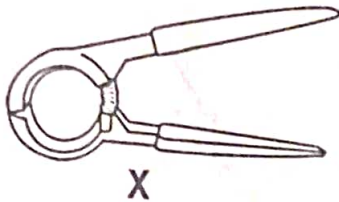
ii) a roof _____

b) Mention any **two** exotic breeds of rabbits commonly kept in Uganda.

i) _____

ii) _____

54. The diagrams below are of equipment used on a livestock farm. Study and use them to answer the questions that follow.



a) Name the above equipment used on a livestock farm:

i) X _____

ii) Y _____

b) Write any **one** cattle disease controlled with the help of the equipment marked with letter Y.

c) How does the use of the equipment X control inbreeding on a livestock farm?

55. a) State any **two** structural differences between arteries and veins.

i) _____

ii) _____

b) Apart from blood vessels, write the **two** other main components of the circulatory system.

i) _____

ii) _____

