

THE SIPRO PRE-PLE SET I EXAMINATION 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: _____

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
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Total		

Please turn over



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SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

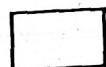
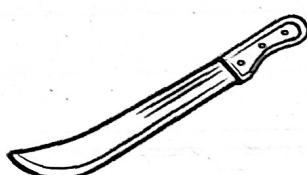
1. State the health lifestyle that keeps the body physically fit.

2. Give **one** example of a living energy resource in the environment.

3. How do bilharzia flukes enter into the person's body?

4. Name the exotic breed of goats that provides mohair to the textile industries.

Use the diagram of a simple machine below to answer questions 5 and 6.



5. To which class of simple machines does the simple machine shown above belong?

6. What should a person using the above machine do order to improve on its efficiency?

7. State the importance of water during seed germination.

8. Apart from protection, give any **one** other importance of the jelly surrounding the eggs of amphibians.

9. State the difference between burning and rusting.

10. Give **one** effect of heat loss to liquids.

11. Mention any **one** condition under which drugs should be stored.



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PRE - PLE SET I INTEGRATED SCIENCE EXAMINATION 2022

IGNITE CRITICAL THINKING AND EXPERIENCE ACTUAL LEARNING WITH THE ACTIVITY BOOKS, SUMMARISER'S GUIDES AND PUPIL'S COMPANION

12. In the space provided below, draw a body shape of a dairy cow.

13. How is a humming bird adapted to its mode of feeding?

14. Give **one** example of a viviparous insect.

15. Name the blood component that carries oxygen around the body.

16. Which part of a banana plant do we eat?

17. What type of change takes place when a mango fruit ripens?

18. Why is it important to include roughages in our diet?

19. How does a guitar produce sound?

20. Why is filtration alone not enough to make water safe for drinking?

21. Give **one** way plants depend on other plants.

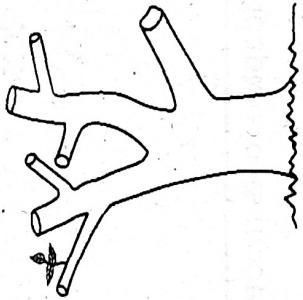
22. State **one** importance of joints in the human body.

23. Give **one** reason why children are taught about poultry keeping in schools.

24. Which disease makes rabbits to sneeze a lot?



Below is a method of harvesting trees. Study it carefully and use it to answer question 25.



25. Name the method of harvesting trees shown above.

26. Give any **one** factor which affects the pitch of sound produced by a drum.

27. Mention any **one** cause of truancy in schools.

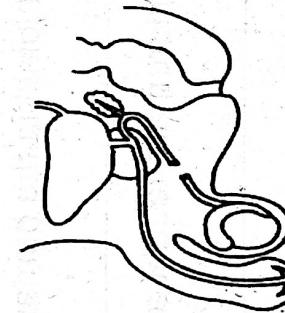
28. State **one** advantage of using electricity for cooking at home.

29. Give **one** characteristic of clay soil.

30. Besides bacteria, which other organisms help in the fermentation of alcohol?

31. State **one** way in which wind is used as an energy resource.

The diagram below shows an artificial birth control method. Use it to answer questions 32 and 33.



32. Identify the artificial birth control method shown in the diagram above.



33. Mention one advantage of using the above birth control method.
34. Which property of magnets is illustrated by compasses that show direction?
35. State one example of a stem tuber.
36. Mention one reason why bees swarm.
37. Name the class of food that improves one's immunity.
38. Which eye defect is corrected using the lens shown below?

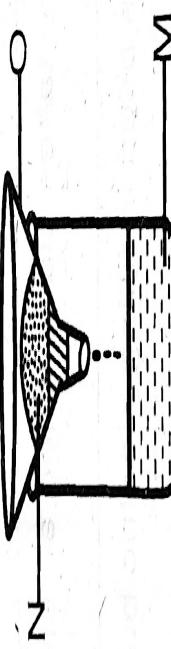


39. Mention any one possible danger of catching young fish from our lakes.
40. Give one difference between the air breathed in and the air breathed out.

SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

- 41. The diagram below shows a method of separating mixtures. Use it to answer the questions that follow.**

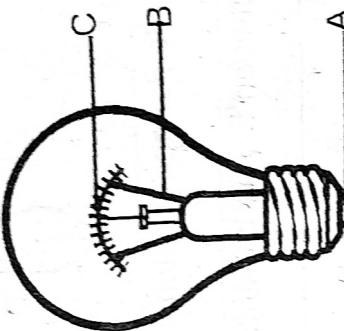


- a) Name the method of separating mixtures shown in the diagram above.
- b) What scientific name is given to the materials marked N and M?
- N _____
 - M _____
- c) How can water obtained through the above method be made safe for drinking?

42. a) Give any **two** examples of poultry vices.
- i) _____
 - ii) _____
- b) How does hanging of green vegetables in the poultry house help to control poultry vices?

- c) Mention any **one** effect of poultry vices to a poultry farmer.

The diagram below is of an electric bulb. Use it to answer the questions that follow.



43. a) Name part marked **A**.

- b) Why is part marked with letter **C** coiled?
- c) What energy change takes place when an electric bulb is in use?
- d) Why is Nitrogen gas used in filling electric bulbs?

44. a) Mention the element of **PHC** which can be promoted through;
- i) performing physical body exercises.
 - ii) washing and ironing clothes

- b) Give any **two** ways in which a family can be involved in promoting **PHC**.
- i) _____
 - ii) _____



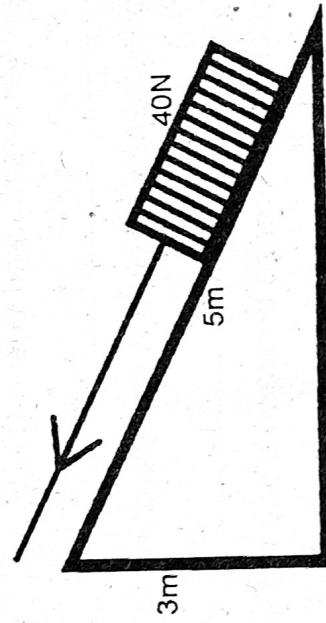
45. a) Write the meaning of each of the following terms.

- i) pruning
- ii) thinning

b) Mention any **two** ways a farmer can improve crop production in his garden.

- i)
- ii)

The diagram below shows a simple machine. Study and use it to answer the questions that follow.



46. a) Name the type of simple machine shown above.

b) State any **two** ways in which machines simplify work.

- i)
- ii)

c) Calculate the mechanical advantage of the machine above.

47. a) What is poisoning?

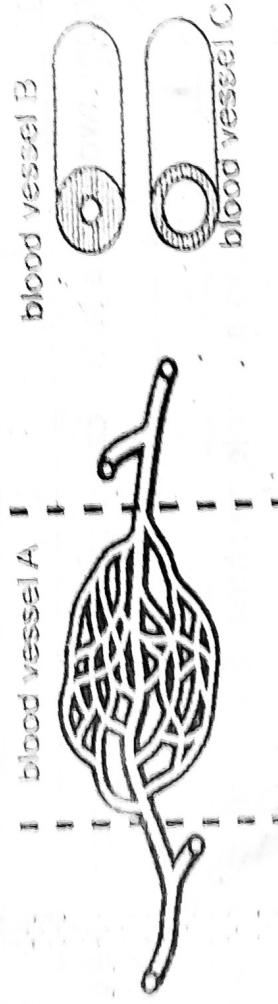
b) Mention any **two** signs of a person who is poisoned.

- i)
- ii)

c) Why is it not advisable to make a person who has drunk paraffin or jik to vomit?



Below are diagrams of blood vessels. Study them carefully and answer the questions that follow.



Q. a) Name blood vessels marked B and C.

(i) B _____
(ii) C _____

b) How are blood vessels labelled A important in the body?

c) Give one structural difference between blood vessel B and blood vessel C.

d) How is each of the following vaccines administered to babies?

Measles vaccine _____

Yellow fever vaccine _____

e) State any two ways in which a child health card is useful to a health worker.

f) Mention any two factors one should consider when selecting a site for a DUSE.

g) Is it a bad practice to stay in one house with domestic animals?

51. a) Apart from sowing method, give other method of planting crops used by most farmers.

b) Give any two disadvantages of using the sowing method.

i)

ii)

c) How do crop pests affect the production of food?

52. Match the animals in list A to their groups in list B correctly.

anaconda

amphibians

newt

birds

cheetah

reptiles

kite

mammals

i) anaconda

ii) newt

iii) cheetah

iv) kite

53. a) Write the disorder of the digestive system that requires medical operation to rectify it.

b) Give any one way of preventing constipation in humans.

c) How are enzymes important in the digestive system?

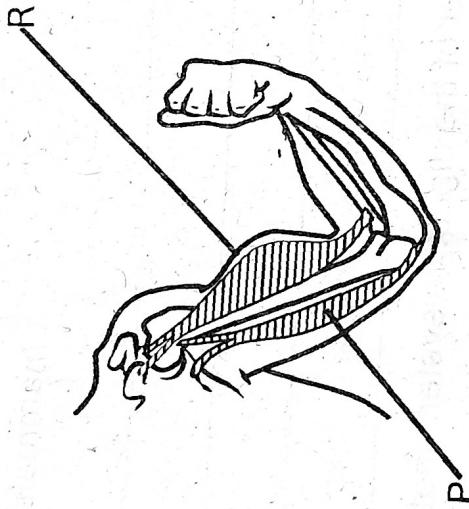
d) Mention one good health lifestyle that can promote the proper working of the digestive system.



54. a) What is environmental degradation?

- b) Mention any **two** human activities that degrade the environment.
- i)
- ii)
- c) In which way has NEMA tried to control environmental degradation in Uganda?

The diagram below shows voluntary muscles of the human arm.
Study and use it to answer the questions that follow.



55. a) Name the muscle marked with letter P.
- b) Why are muscles marked P and R called antagonistic muscles?
- c) What happens to voluntary muscle R when the arm is straightened?
- d) Mention any **one** disorder of bones.

