

THE SIPRO PRE-PLE SET IV 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:

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Total		

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THE SIPRO EDUCATIONAL SERVICES LIMITED - KAMPALA

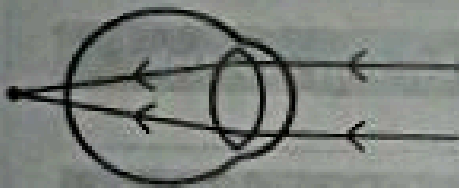
PUBLISHERS OF THE SIPRO TEACHERS' GUIDES, LEARNER'S WORKBOOKS & HOLIDAY ASSIGNMENTS

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name one common accident which occurs in the garden.
2. State the characteristic of living things which enables them to manufacture energy in their body cells.
3. Name any one inorganic component of the soil.
4. Why is a sunshine recorder a useful weather instrument at a weather station?
5. Give a reason why beans are referred to as annual crops.

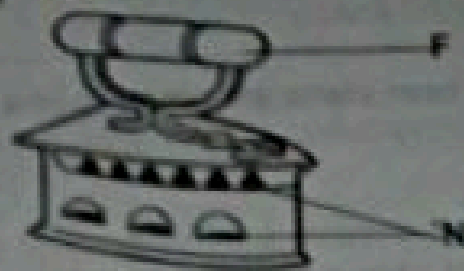
The diagram below is of an eye defect. Study and use it to answer questions.



6. Name the eye defect shown in the diagram above.
7. What problem does an individual with such an eye defect face?
8. State one way in which old plastic containers can be reused in a home.
9. How is the cotyledon useful to a germinating monocotyledonous seed?
10. State any one disadvantage of bottle feeding to the baby.
11. State one way transpiration is an important process in plants.
12. How does regular vaccination help to conserve animals in the environment?



The diagram below shows a tool found in most homes. Use it to answer questions 13 and 14



13. Give the importance of holes marked N on the tool above.

14. Why is part F usually made of insulators?

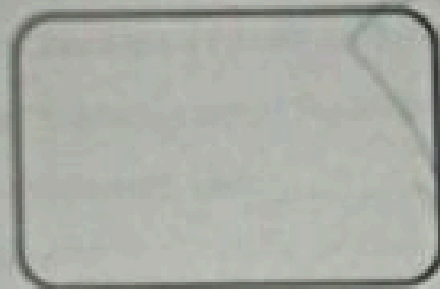
15. How does crop rotation help to control insect pests in the garden?

16. How are bacteria prevented from multiplying in bottled drinks?

17. Why is it difficult to light a match stick on a wet matchbox?

18. State the importance of a wire mesh on a rabbit's hutch.

19. In the space provided below, draw a diagram of the type of tooth used for cutting and biting food.



20. Give a reason why cooking oil floats on top of water.

21. Name the garden tool which farmers use to dig holes in a rocky area.

22. Give one reason why pupils wear sweaters on cold days.



23. Which protozoan disease affects the circulatory system?

24. State one way in which soya bean plants are similar to pine plants in the way they reproduce.

25. Mention any one method used when extracting honey from honey combs.

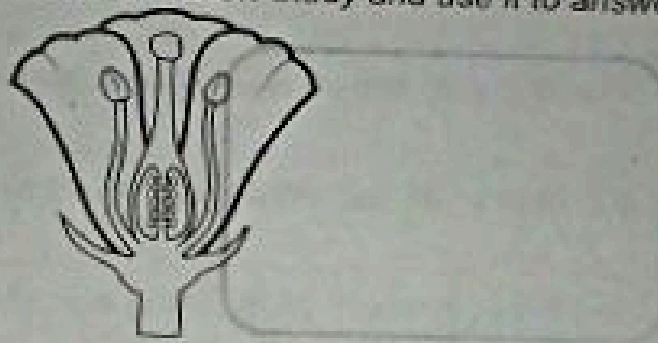
26. How does drought lead to low food production in a community?

27. Why would you advise commercial farmers to use artificial incubation on a poultry farm?

28. State one way in which physical exercises are important to the human body.

29. How is leaving food uncovered dangerous to one's health?

The diagram below shows a flower. Study and use it to answer question 30.



30. Use a label with letter T to show the part which protects the flower at the budding stage.

31. State the importance of including vegetables in our diet.

32. How is the filament in the electric bulb made to withstand the flow of current?



33. What role is played by the sun's heat in the preservation of harvested beans?

34. Which health problem can result from hookworm infestation in infants?

35. How do perches put in the poultry house control poultry vices?

36. Write one way the concern of poor water supply can be addressed in the community.

37. Give a reason why a rain gauge is placed above the ground when it is being used.

38. State the type of immunity a child gets after recovering from measles.

39. How does the filtration process help in the preparation of clean water at home?

40. Give one way a teacher can use a child health card of one of the school pupils.

SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each

41. a) State one way in which each of the following elements of PHC is important.

i) maternal and child health care

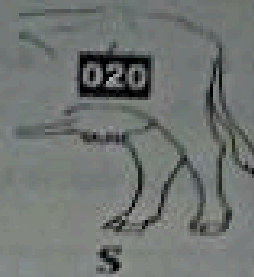
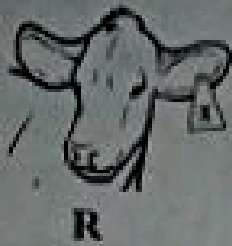
ii) health education

b) Why should all methods involved in PHC be made affordable?

c) State one role of the community in promoting PHC programmes.



42. The diagrams below show practices done on the animal farm. Study and use them to answer the questions that follow



a) Name the farm practices shown in the diagrams above.

- i) R _____
ii) S _____

b) State one way in which the farm practices above are important in animal management.

c) How are the above practices harmful to the animals on a farm?

43. a) State the main reason why invalids are grouped under vulnerable groups of people.

b) How are the following food substances useful to invalids?

- i) proteins _____
ii) vitamins _____

c) Apart from invalids, name any other example of vulnerable people.

44. a) Write any two characteristics of fungi.

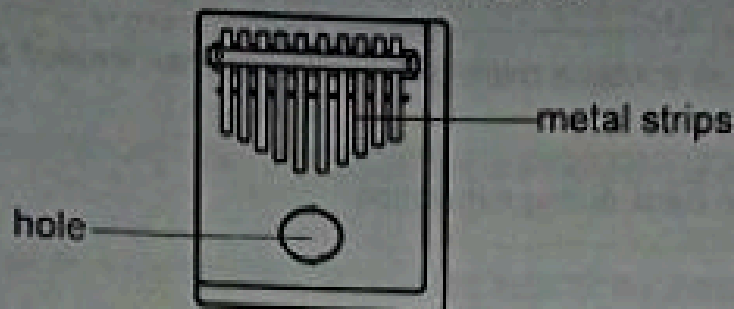
- i) _____
ii) _____

b) How are the following fungi useful to people?

- i) mushrooms _____
ii) yeast _____



45. The diagram below shows one of the local musical instruments. Study and use it to answer the questions that follow.



- a) Name the musical instrument shown in the diagram above.

- b) To which group of musical instruments does it belong?

- c) How does the above musical instrument produce sound?

- d) Give a reason why the metal strips are of different lengths.

46. a) Name the type of organic manure made from -
i) leaves and stems of young legumes _____
ii) kitchen waste and left overs _____
b) How is organic manure environmentally friendly to the soil?

- c) State the importance of water added when making organic manure.

47. a) Name the form of static electricity in nature.

- b) Which force enables the electricity mentioned in a(i) above be produced?

- c) Give one danger of the form of static electricity mentioned in a(i) above.

- d) Which device is fixed on tall buildings as a protective measure against the form of static electricity in a(i) above?



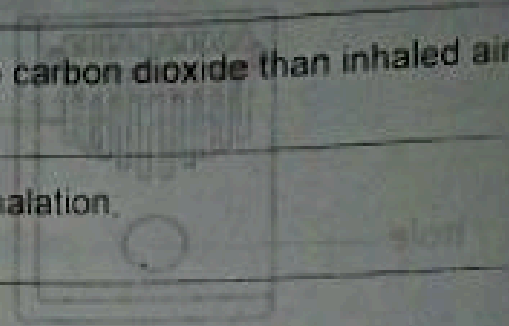
48. a) Apart from carbon dioxide, give one other substance which is greater in exhaled air than in inhaled air.

b) Give a reason why exhaled air contains more carbon dioxide than inhaled air.

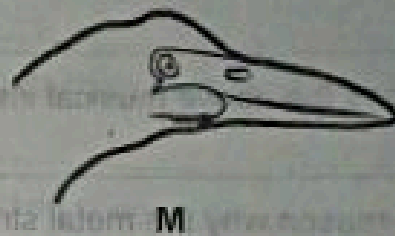
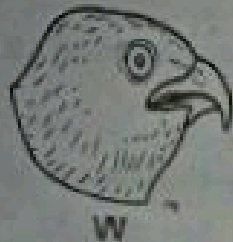
c) State what happens to these parts during exhalation.

i) ribcage _____

ii) diaphragm _____



49. The diagrams belows show beaks of different birds. Study and use them to answer the questions that follow.



a) To which group of birds do ones with beak P belong?

b) Give one example of a bird that belongs to the group of birds with beak W.

c) How is beak marked with letter M adapted to its feeding mode?

d) Which food are birds with beak P likely to feed on?

50. a) Which two of the 4F's lead to increased houseflies in the community?

i) _____

ii) _____

b) Write any two dangers of having many houseflies in the community.

i) _____

ii) _____



51. a) Why is alcohol regarded as a drug?

b) State two uses of alcohol to a medical doctor.

i) _____

ii) _____

c) State one habit that can safeguard a school going child against alcoholism

52. a) Name the type of muscles to which each of the following belong;

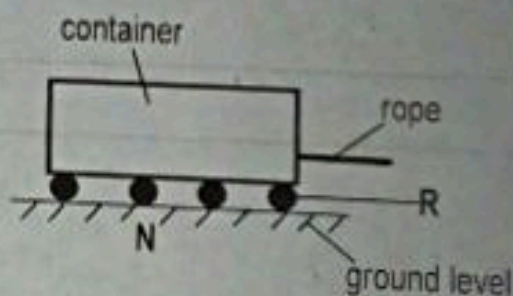
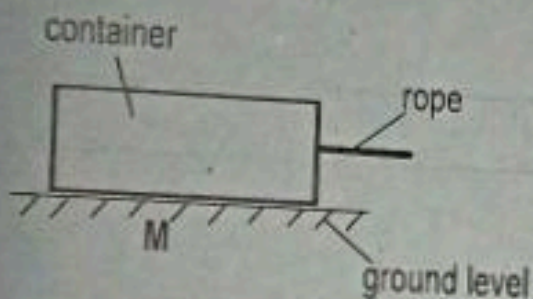
i) muscles of the heart _____

ii) muscles of the thigh _____

b) Give one function of muscles in the body.

c) Write one disorder of muscles in the body.

53. The diagrams below show a container being pulled. Use them to answer the questions that follow.



a) In which of the two illustrations will less effort be applied to pull the container?

b) Give a reason for your answer in 51 (a) above.

c) How are structures R useful in illustration N?

d) Name one example of a liquid substance that plays a similar role as R in simple machines.

54. a) Apart from sorting and soaking, name one other step taken when cleaning clothes at home

b) State any **two** factors considered when sorting clothes for washing

i) _____

ii) _____

c) How is soaking an important step in the cleaning of clothes?

55. a) Write any **two** exotic breeds of chicken kept for egg production.

i) _____

ii) _____

b) Give any **two** factors that may lead to a drop in the egg production on a poultry farm.

i) _____

ii) _____

