

THE SIPRO END OF TERM III EXAMINATIONS 2022

SUBJECT : INTEGRATED SCIENCE

CLASS : PRIMARY SIX

DURATION : 2 hours 15 minutes

Name : _____
School : _____
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
Page 1		
Page 2		
Page 3		
Page 4		
Page 5		
Page 6		
Page 7		
Total		

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SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name **one** example of a chemical change in the environment.

2. How does sound from the teacher reach a child seated at the back of the classroom?

3. How are beans similar to pine in the way they reproduce?

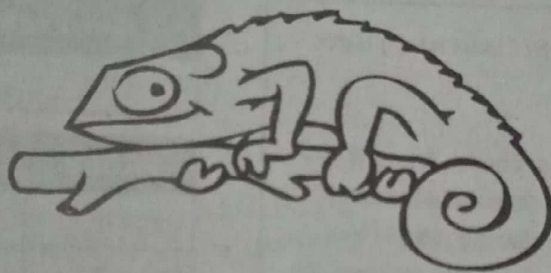
4. Give **one** way of controlling deficiency diseases among family members.

5. Mention **one** example of a warmblooded animal that lives in water.

6. State the reason of putting perches in a deep litter house.

7. Why is it important to wash hands before serving food?

The diagram below is of a vertebrate. Study and use it to answer question 8.



8. To what group of vertebrates does the animal shown in the diagram above belong?

9. Name the crop growing practice that involves the cutting of excess branches from a plant.

10. Which characteristic makes clay soil the best for pottery?

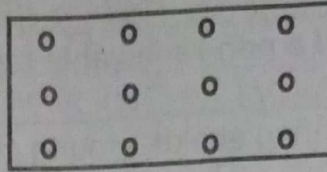
11. Give **one** example of a respiratory disease caused by excessive tobacco smoking.

12. How is a mortar and a pestle useful to a person who wants to prepare groundnut sauce in a home?



13. Name **one** exotic breed of goats kept mainly for milk production.

The diagram below shows a method of planting seeds. Study and use it to answer question 14.



14. Name the method of planting seeds shown in the diagram above.

15. How is blood transported in the body?

16. State **one** danger of heavy rainfall to the environment.

17. Which immunisable disease causes lameness in children?

18. Mention any **one** way a farmer can control unwanted mating on a cattle farm.

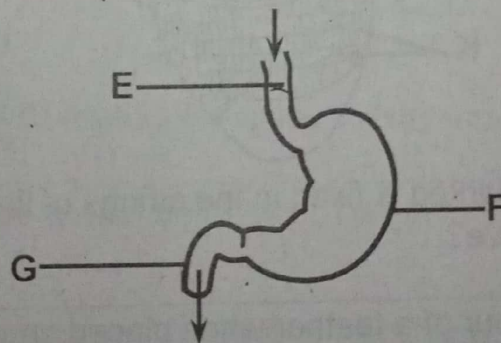
19. How is the use of a bean pod similar to that of a cypress' cone?

20. Write any **one** effect of poor sanitation to the health of children at home.

21. How does a dog protect itself from enemies?

22. Give **one** way a mother hen protects her chicks from heavy rain.

Below is a diagram showing part of the digestive system in humans. Study and use it to answer questions 23 and 24.

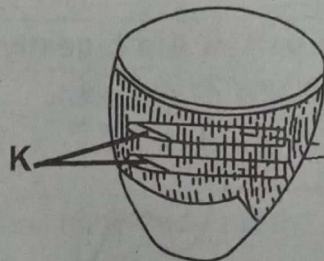


23. Name the part labelled with letter G.



24. How does food move to part F through part E?
25. Which property of air enables a P.6 child to drink juice using a straw?
26. Mention **one** example of a non-renewable resource in the environment.
27. State **one** way of preventing scalds among crawling babies at home.
28. How are sea animals able to maintain a constant body temperature while in water?
29. Why do livestock farmers prefer rearing local breeds of cattle to exotic ones?
30. Which weather instrument is used to measure how deep rain water has entered into the soil?
31. Give the reason for leaving the hole of a VIP latrine open.
32. Name **one** activity done by apiarists to prevent swarming among bees.
33. Write **one** example of a fuel commonly used in vehicles.
34. State **one** danger of harmful insects to people.

The diagram below is of a drum. Study and use it to answer question 35.



35. Why are sticks marked **K** fixed in the strings of the drum as shown in the diagram above?
36. Write the behaviour of a feather when placed on water.
37. Apart from being used as a drink, state **one** other way alcohol is useful to people.



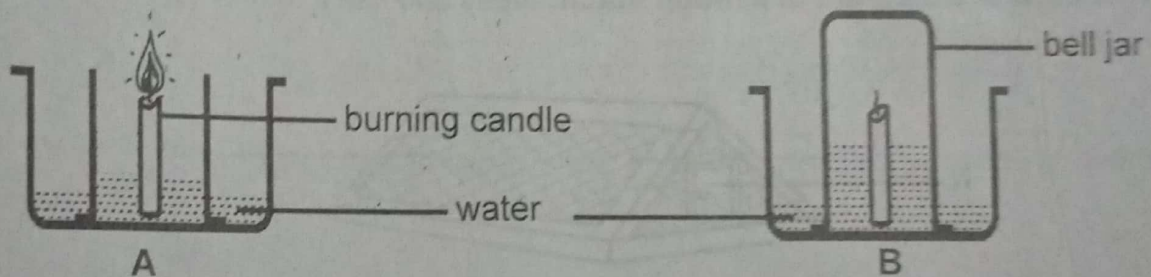
38. Name one example of a crop that is first grown in a nursery bed.
39. State the best way of improving the immunity in babies through natural means.
40. Which intestinal worms enter the body by penetrating through bare skin?

SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

- 41(a) What term refers to the stage of growth when a young person is between childhood and adulthood?
- (b) Mention any **two** primary sex changes that may occur in girls undergoing the stage mentioned in 41(a) above?
- (i) _____
- (ii) _____
- (c) Why are girls undergoing the stage in 41(a) above advised to abstain from sex?

42. The diagram below shows an experiment carried out by Primary Five class in a science lesson. Study it carefully and use it to answer the questions that follow.



- (a) Which component of air enables the candle to burn as shown in A above?
- (b) What makes the candle to stop burning when covered with the bell jar as shown in B above?
- (c) Give the reason why the water level rises as seen in diagram B above.
- (d) Name the type of change that occurs when candle wax melts.



43(a) Mention any **two** diseases spread through the 4Fs germ path.

(i) _____

(ii) _____

(b) State any **two** health lifestyles that can help one control diseases spread through the 4Fs germ path.

(i) _____

(ii) _____

44(a) Write any **one** principle of Primary Health Care.

(b) Which element of PHC is promoted when;

(i) one washes dirty clothes? _____

(ii) a family agrees on the number of children they are to have in their family? _____

(c) State **one** way the community can participate in promoting PHC.

45(a) Name **one** example of a drug that is commonly abused by people.

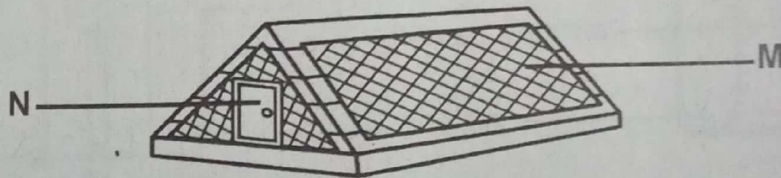
(b) Mention any **two** excuses people give for abusing drugs.

(i) _____

(ii) _____

(c) Give **one** danger of drug abuse to an individual's health.

46. Below is a diagram of a rabbit hutch. Study and use it to answer the questions that follow.



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

(b) What name is given to part labelled **M** on the above diagram?

(c) Give the function of part labelled **N** on the hutch shown in the diagram above.

(d) State **one** disadvantage of the type of hutch shown in the above diagram.



47(a) Name the liquid metal commonly used in thermometers.

(b) State **two** reasons why the liquid metal mentioned in (a) above is used in thermometers.

(i) _____

(ii) _____

(c) Why should a clinical thermometer be shaken by a health worker before being used on another patient?

48(a) Write the first **two** steps involved in the cleaning of clothes.

(i) _____

(ii) _____

(b) Mention any **two** ways of caring for washed clothes at home.

(i) _____

(ii) _____

49. Complete the table below correctly.

Vaccine	Age of administration	Body site for administration
Measles vaccine	_____	left upper arm
_____	at birth	right upper arm
DPT vaccine	6 weeks, 10 weeks, 14 weeks	_____
Polio vaccine (OPV)	_____	mouth

50(a) Name the structure on the body of a worker bee that enables it to:-

(i) defend the hive _____

(ii) carry pollen from flowers _____

(b) How does bee keeping help in the control of marasmus?

(c) In which way is a modern beehive adapted to preventing the queen bee from entering in the honey chamber?

51(a) Give **one** example of a salt lost during dehydration.

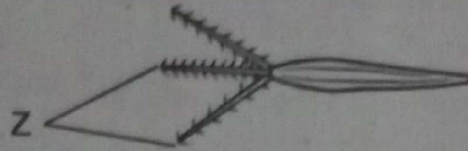
(b) State any **one** cause of dehydration in babies.

(c) How can a mother tell that one of her children is dehydrated?

(d) Write **one** effect of dehydration to an individual.



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



(a) How is the seed shown in the diagram above dispersed?

(b) Give the name and function of structures marked Z on the seed shown above:

(i) name _____

(ii) function _____

(c) Name **one** other seed dispersed in the same way as the one shown in the diagram above.

53(a) State the basic units used in the measurement of;

(i) weight _____

(ii) mass _____

(b) Mention **two** examples of instruments used in the measurement of mass and weight.

(i) _____

(ii) _____

54(a) Why is the trachea made up of rings of cartilage?

(b) Give **two** adaptations of the alveoli to their function of gaseous exchange.

(i) _____

(ii) _____

(c) State **one** disorder of the respiratory system.

55. Match the crops below to the pests that attack them.

List A

maize

cassava

sweet potato

beans

List B

white fly

army worms

stalk borer

squirrel

(i) maize _____

(ii) cassava _____

(iii) sweet potato _____

(iv) beans _____

