

# THE SIPRO MID - TERM II EXAMINATIONS 2023

## PRIMARY SEVEN 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		

Please turn over



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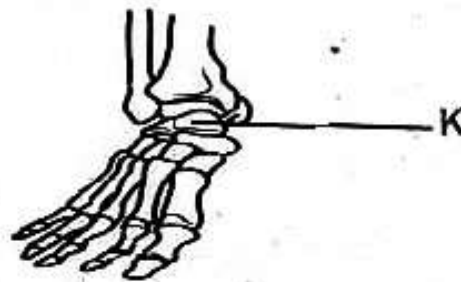
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## SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name any **one** group of organisms involved in soil formation.  
\_\_\_\_\_
2. How can parents protect their children against scurvy?  
\_\_\_\_\_
3. Give a reason why doctors do not use their hands for detecting fever in a malaria patient.  
\_\_\_\_\_
4. Why is it important for a nursery bed to have a shed?  
\_\_\_\_\_
5. Write any **one** activity that helps to promote sanitation in a home.  
\_\_\_\_\_
6. State **one** way in which flowering plants are important to bees.  
\_\_\_\_\_
7. Mention **one** way in which plants depend on animals.  
\_\_\_\_\_
8. Name the type of natural fertiliser obtained from animal wastes together with their beddings.  
\_\_\_\_\_
9. Give any **one** condition that can make a woman vulnerable.  
\_\_\_\_\_

The diagram below shows part of the skeletal system. Study and use it to answer question 10.



10. Name the movable joint located in part marked with letter K.  
\_\_\_\_\_
11. What type of root system do plants that undergo epigeal germination have?  
\_\_\_\_\_



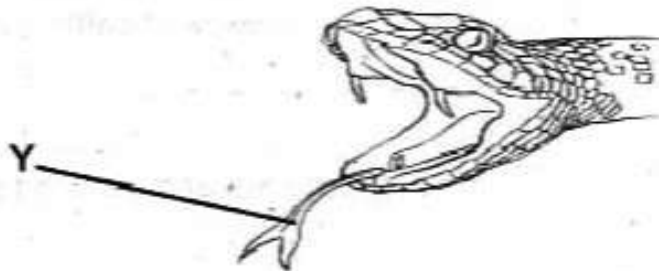


12. Why is it important to apply small stones on a slippery road?

13. Name the component of air which is a raw material for photosynthesis.

14. In which way do earthworms increase air passage in the soil?

Below is a diagram of a poisonous snake. Use it to answer questions 15 and 16.



15. Name the part of a fish whose function is similar to the part of a snake labelled Y.

16. How does venom from the above drawn snake affect blood?

17. Name the system that eliminates waste products from the human body.

18. Mention any one cause of convulsions.

19. State any one importance of evaporation in the water cycle.

20. Give one example of a protozoan germ.

21. Peter was diagnosed with lung cancer from hospital. What bad health habit could have resulted into such a disease?

22. Which property of sound enables bats to dodge obstacles as they are flying?



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23. Name the class of food contained in feeds used for steaming up cattle.

24. How is the feeding of an eagle different from that of a sunbird?

25. Give any **one** way in which plants can be used as energy resources.

26. Mention **one** advantage of rearing cross breeds of cattle over exotic ones.

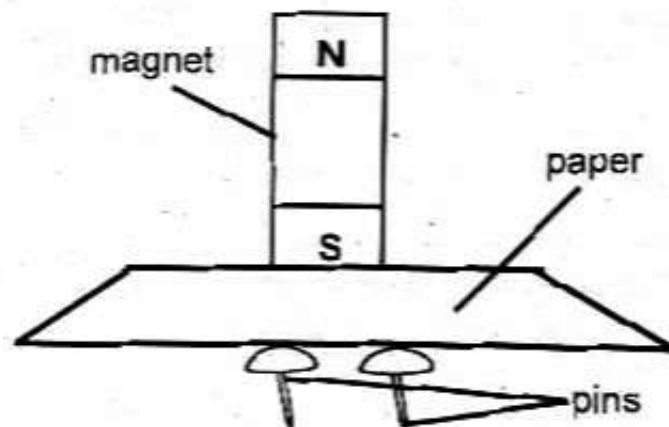
27. Write **one** adaptation that enables premolars and molars to carry out their work effectively.

28. State the danger of drinking contaminated water.

29. Give any **one** effect of deforestation in the environment.

30. State **one** way echoes are controlled in theatres.

Below is a diagram showing a method of making magnets. Study and use it to answer questions 30 and 31.



31. Identify the property of magnets shown in the diagram above.

32. In which way is the above property important to people in their daily life?



33. Apart from compact discs, name any other electronic device used for storing sound energy.

34. State any **one** role of plasma in the body.

35. Which organs are used by both fish and tadpoles for breathing ?

36. Give any **one** example of an artificial fibre.

37. How does mulching help to conserve moisture in the soil?

38. Why do electric wires hanging on poles sometimes appear sagging?

39. Give a reason why it is not advisable to buy and use drugs from local shops.

40. Write any **one** sign of gonorrhoea in men.

### SECTION B: 60 MARKS

*Questions 41 to 55 carry four marks each.*

41(a) Which structures help to join muscles to bones in the body?

(b) Mention any **one** type of muscles in the human body.

(c) State any **two** ways of caring for the skeletal and muscular system.

(i)

(ii)





42 (a) Apart from evaporation, mention any other example of a physical change in the environment.

(b) Mention any **two** factors that can affect the rate of evaporation.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(c) How does freezing affect the density of liquids?

\_\_\_\_\_

43. Below is a diagram of a simple machine. Study and use it to answer the questions that follow.



(a) To which class of levers does the simple machine above belong?

\_\_\_\_\_

(b) Use an arrow and letter **K** to show the position of the pivot from the simple machine above.

(c) Give **two** reasons why people decide to use simple machines for doing work.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

44(a) Mention any **two** traditional methods used to preserve food.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Give any **two** reasons why food should be preserved.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_



45. Study the list of foodstuffs below and use it to answer the questions that follow.

Irish potatoes	Carrots	Cabbages	Rice
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(a) Which **two** foodstuffs from the list above are sources of vitamins?

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Name the deficiency disease controlled when a person feeds on:-

(i) carrots \_\_\_\_\_

(ii) irish potatoes \_\_\_\_\_

46(a) State any **two** ways community members can promote sanitation in an area.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Mention any **two** dangers of poor sanitation in an area.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

47. The diagram below shows a common bird. Use it to answer the questions that follow.



(a) Name the bird shown in the diagram above.

\_\_\_\_\_

(b) To which group of birds does the one drawn above belong?

\_\_\_\_\_



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(c) What kind of food does the bird shown above feed on?

(d) How is such a bird useful in the environment?

48(a) Mention any **two** natural causes of environmental degradation .

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

(b) Give any **two** importance of wetlands in the environment.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_

49(a) Why are worker bees regarded as sterile bees?

(b) What is the role of the queen excluder in a modern beehive?

(c) In which way are halteres useful to a bee during flight?

(d) How does a crop farmer benefit from an apiary nearby?

50(a) How is each of the following crops harvested?

(i) sweet potatoes \_\_\_\_\_

(ii) coffee \_\_\_\_\_

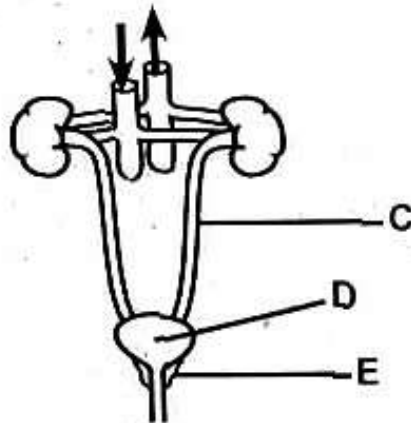
(b) State any **two** ways of controlling crop pests without using chemicals.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_



51. The diagram below shows a body system. Study and use it to answer the questions that follow.



(a) Name the parts marked with letters C and D;

(i) C \_\_\_\_\_

(ii) D \_\_\_\_\_

(b) State the function of part marked with letter E.

\_\_\_\_\_

(c) Mention any **one** disease which affects the above system.

\_\_\_\_\_

52(a) Write the kind of accident that involves the following activities when giving first aid;

(i) applying clean cold water on the injured part.

\_\_\_\_\_

(ii) tying splints around the injured part with a bandage.

\_\_\_\_\_

(b) Give any **two** reasons for giving first aid to casualties.

(i) \_\_\_\_\_

(ii) \_\_\_\_\_



53(a) State any **two** signs of calving in cows.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

(b) Give any **two** importance of colostrum to a newly born calf.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_

54. Match the words given in **list A** with their correct meaning in **list B**.

**List A**

capacity

cohesion

adhesion

volume

**List B**

force of attraction between molecules of the same substance.

amount of a liquid a container can hold.

force of attraction between molecules of different substances.

total amount of space occupied by an object.

- (i) capacity \_\_\_\_\_
- (ii) cohesion \_\_\_\_\_
- (iii) adhesion \_\_\_\_\_
- (iv) volume \_\_\_\_\_

55(a) Mention **one** example of a leguminous plant.

(b) Which useful organisms are found in root nodules of leguminous plants?

(c) Write any **two** advantages of carrying out crop rotation.

- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_



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