

# THE SIPRO PRE-MOCK EXAMINATIONS 2023

## INTEGRATED SCIENCE

Time Allowed: 2 (Hours 15 Minutes)

Index No.

Random No.

Personal No.

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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 10 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 pen 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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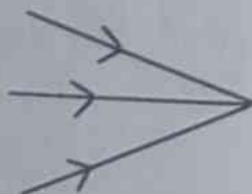
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### SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the part of a flowering plant that stores seeds.  
\_\_\_\_\_
2. State any one factor to be considered when selecting a site for building a house.  
\_\_\_\_\_
3. How are carbohydrates important in the human body?  
\_\_\_\_\_
4. Give any one way conduction can be important at home.  
\_\_\_\_\_
5. Name the goat management practice carried out using a burdizzo.  
\_\_\_\_\_
6. State any one way in which cholera can be controlled among school children.  
\_\_\_\_\_

The diagram below shows a beam of light. Study and use it to answer question 7.



7. Name the type of beam shown in the diagram above.  
\_\_\_\_\_
8. Give any one role of a School Health Committee in the promotion of Primary Health Care in a school.  
\_\_\_\_\_
9. Name the force of attraction that exists between molecules of different substances.  
\_\_\_\_\_
10. State one effect of scurvy to the oral health of a person.  
\_\_\_\_\_
11. Write any one danger of alcohol consumption to a family.  
\_\_\_\_\_



12. How does untreated Gonorrhoea cause barrenness in women?  
\_\_\_\_\_
13. What should be done by engineers constructing a railway line to manage the effects of expansion on hot days?  
\_\_\_\_\_
14. Why is coffee grouped under perennial crops?  
\_\_\_\_\_
15. State any one way preserving food promotes food security at home.  
\_\_\_\_\_
16. Name the vector which spreads bilharziasis to people.  
\_\_\_\_\_

The diagram below shows one of the management practices in poultry rearing. Use it to answer questions 17 and 18.



17. Name the management practice shown in the diagram above.  
\_\_\_\_\_
18. How is the above practice important to a poultry farmer?  
\_\_\_\_\_  
\_\_\_\_\_
19. Which type of weather is good for planting crops?  
\_\_\_\_\_
20. Give one way in which community members can reduce accidents on their roads.  
\_\_\_\_\_
21. Name the human body organ which regulates blood sugar levels.  
\_\_\_\_\_





22. Give any **one** way the light produced by a bulb in a simple electric circuit can be increased.

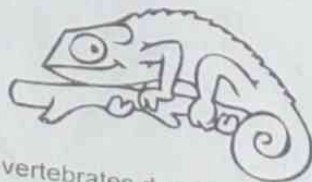
23. State any **one** way in which adolescents can avoid catching HIV/AIDS.

24. Give **one** importance of sorting clothes before washing them.

25. How does slashing of tall grass in the compound control the spread of malaria?

26. How are muscles connected to bones in the human skeleton?

The diagram below is of a vertebrate. Study and use it to answer questions 27 and 28.



27. To which class of vertebrates does the animal above belong?

28. How are the eggs of the animal above fertilised?

29. In which state of matter does sound travel fastest?

30. Give the reason why ventilators are put on a higher level than windows.

31. Mention any **one** way human eyes can be kept in a good working condition.

32. Give **one** way beans and conifers are similar in terms of reproduction.

33. State **one** way of keeping an ordinary pit latrine free from houseflies and cockroaches.



34. Which characteristic of living things protects internal body organs from damage by poisonous waste materials?  
\_\_\_\_\_
35. Write **one** activity that a Primary Seven candidate can do to conserve the environment.  
\_\_\_\_\_
36. How does a fuse protect electric devices from being damaged by high voltage?  
\_\_\_\_\_
37. State **one** way oxygen is important during seed germination.  
\_\_\_\_\_
38. How does hookworm infestation lead to anaemia in human beings?  
\_\_\_\_\_
39. In which way does the keeping of drugs out of children's reach prevent child poisoning?  
\_\_\_\_\_
40. Name the natural shadow formed when the moon blocks sunlight reaching the earth.  
\_\_\_\_\_

#### SECTION B: 60 MARKS

*Questions 41 to 55 carry four marks each.*

- 41(a) Give an example of each of the following changes,  
(i) chemical change \_\_\_\_\_  
(ii) physical change \_\_\_\_\_  
(iii) biological change \_\_\_\_\_  
(b) Mention **one** characteristic of chemical changes.  
\_\_\_\_\_
- 42(a) Give the meaning of the term an energy resource.  
\_\_\_\_\_  
\_\_\_\_\_
- (b) Name one energy resource that provides wastes for making biogas fuel.  
\_\_\_\_\_  
\_\_\_\_\_



(c) Name the equipment people use in the making of biogas.

(d) State any one way people use biogas.

43(a) Mention any two examples of viral cattle diseases.

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

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

(b) Apart from death of the animal, state two other effects of cattle diseases on a cattle farm.

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

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

44(a) How are fungi similar to bacteria in the way they feed?

\_\_\_\_\_

(b) Name any two examples of useful fungi.

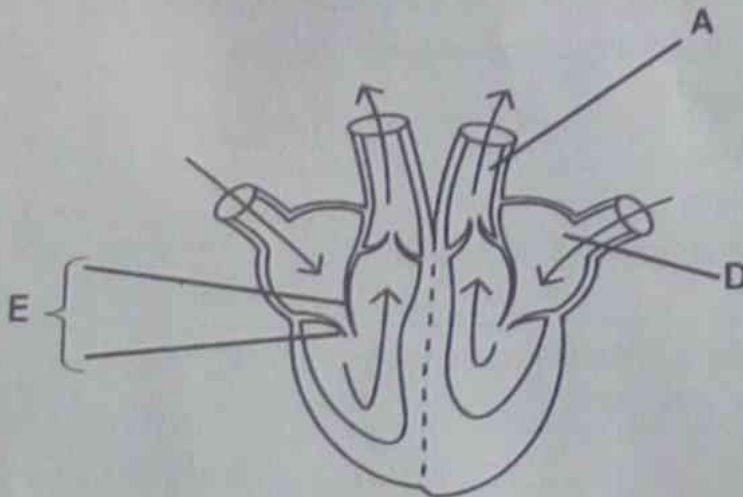
(i) \_\_\_\_\_

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

(c) Give any one way in which bacteria are useful to people.

\_\_\_\_\_

45. The diagram below is of a human heart. Use it to answer the questions that follow.



(a) Name parts labelled E and C.

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

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





(b) How is blood carried in blood vessel A similar to the blood carried by blood vessel D?

(c) Why is the left ventricular wall of the heart thicker than that of the right ventricular one?

46(a) Give any two advantages of using electricity for doing work.

(i)

(ii)

(b) State two ways the use of hydroelectricity can be dangerous to people.

(i)

(ii)

47. The diagram below shows an item made from soil. Use it to answer the questions that follow.



(a) Identify the type of soil used to make the item shown in the diagram above.

(b) Name the characteristic of the type of soil you have named in (a) above which makes it suitable for making such items.

(c) Apart from covering, give one other way of preventing contamination of water kept in the item above.

(d) State any one way people care for the above drawn item.



48(a) Mention any two examples of drugs of dependency.

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

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

(b) State any two effects of drugs of dependency to the human body.

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

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

49. The table below shows terms used in human reproduction in X and their meaning in Y. Match them correctly

X	Y
ovulation	union of male and female gametes.
fertilisation	release of mature ova from the ovaries.
implantation	successful fertilisation
conception	attachment of the zygote on the walls of the uterus.

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

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

(iii) implantation \_\_\_\_\_

(iv) conception \_\_\_\_\_

50(a) Give any two ways plants benefit from the process of seed dispersal.

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

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

(b) How is a blackjack fruit adapted to animal dispersal?

\_\_\_\_\_  
\_\_\_\_\_

(c) State the type of weather which enables explosive mechanism to occur in a bean pod.

\_\_\_\_\_





51. The diagrams below are of two weather instruments. Study and use them to answer the questions that follow.



(a) Identify the weather instruments labelled with letters X and Y.

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

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

(b) State the role of instrument X at a weather station.

(c) How does one care for instrument Y after use at a weather station?

52(a) Write any **two** ways friction is a nuisance force.

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

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

(b) State **two** steps taken to reduce friction in moving parts of a machine.

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

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

53(a) Name the crop growing practice where a farmer grows different types of crops on the same piece of land in the same season.

(b) Give any **two** advantages of the practice mentioned in (a) above.

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

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

(c) Write any **one** problem that affects crop growing in the garden.



54(a) Give the meaning of the term an echo.

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(b) Mention any **two** groups of people that use echoes during their work.

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

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

(c) How does putting of soft porous boards in cinemas help to control echoes?

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55(a) You are provided with,

**Water, a glass cup and a paper.**

Arrange them in a diagram to show that air exerts pressure. (Indicate the air pressure on your diagram) - 2 marks.

(b) Mention **two** activities done using the property of air illustrated above.

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

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

