

SIPRO SPECIAL SET 2023**INTEGRATED SCIENCE****Time Allowed: 2 Hours 15 Minutes****Index No.**

Random No.						Personal No.		

Candidate's Name: _____**Candidate's Signature:** _____**SES 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;**

Qn. No.	MARKS	INITIALS
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
Total		

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SECTION A : 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the part of air needed by legumes to manufacture proteins.
2. To which group of vertebrates do snakes belong?
3. Give the importance of cartilage found on the trachea.
4. Why should health workers avoid using hands when measuring the body temperature of patients?
5. Give any one health habit that helps to promote the proper working of bones and muscles.
6. Name any one insect vector that may greatly affect the human eye.
7. Derrick breathed onto a mirror and he failed to see his image clearly. Why did this happen?

The diagram below shows a simple machine. Study and use it to answer questions 8 and 9.



8. Which group of simple machines is illustrated in the diagram above?
9. Give one reason why it is easy for the man to hoist the flag as seen in the diagram.

10. State **one** effect of alcoholism to an individual in a community.

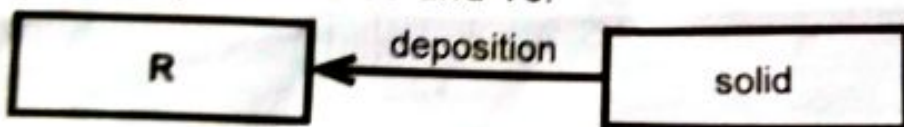
11. Why is water a useful item in the making of organic manure?

12. How is movement in the shoulder joints different from that in the hip joints?

13. Give any **one** example of a wild bird in the environment which is a crop pest.

14. How are putrefying bacteria found in the soil helpful in soil formation?

The diagram below shows a change in state of matter. Study and use it to answer questions 15 and 16.



15. Name the state of matter shown by letter R.

16. Why is the change of state shown above regarded as a physical change?

17. The elderly are **one** of the groups of vulnerable people. State any **one** way a school child can help them in a home.

18. State any **one** way the use of energy saving stoves conserve wood fuel in the environment.

19. Write any **one** danger of fast flowing water caused by too much rainfall in the environment.

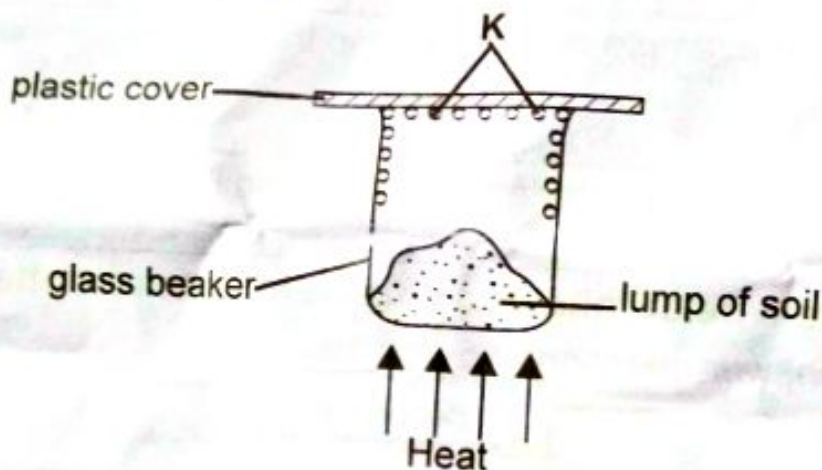


20. How is carbon dioxide useful in the preservation of canned drink?

21. In which **one** way do pawpaw plants prevent self pollination?

22. Give any **one** way a poultry farmer can control the breaking of eggs in a deep litter house.

The diagram below shows an experiment about soil. Use it to answer questions 23 and 24.



23. How did substance K form on the plastic cover?

24. Which property of soil is illustrated in the diagram above?

25. How do plants benefit from animals during photosynthesis?

26. Why should a good first aider be quick?

27. How is an image similar to an echo in the way they are formed?

28. Why is it impossible for sound to travel through a vacuum?

29. State **one** way the spread of scabies can be controlled among family members.

30. Give **one** advantage of growing perennial crops over annual crops by a crop farmer.

31. How can a person preparing to harvest honey ensure that bees are calm in the hive?

32. Name the endo parasite that can cause malnutrition in human beings.

33. Which digestive process in the stomach enables mixture of food with digestive juices?

34. Mention **one** way of keeping drugs out of reach of children.

35. Why should the hole of a VIP latrine be left uncovered?

The diagram below shows a crop farmer harvesting coffee.
Study and use it to answer questions 36 and 37.



36. Which method of harvesting coffee is shown in the diagram above?

37. Why should the practice shown in the diagram above be done during the dry season?

38. In which one way is exposure of the ears to loud sound dangerous to people?

39. Name the disease caused due to a high concentration of glucose in blood.

40. Apart from using lightning arrestors, state any one other way of controlling the dangers of lightning.

SECTION A : 40 MARKS

Questions 41 to 55 carry four marks each.

41. a) Give the meaning of the term **Primary Health Care**.

(b) Write any **two** guidelines followed when carrying out Primary Health Care activities.

(i)

(ii)

(c) Name any **one** health care given to an expectant mother who goes to the health centre for antenatal care.

42. a) Name the method used to find the volume of irregular objects.

(b) The mass of a sweet potato is 52 grammes and displaces water of 13cc. Find its density. **(02 marks)**



(c) Why does a bean seed fall first before a feather when thrown from the same height at the same time?

43. The diagram below shows a type of beehive. Use it to answer the questions that follow.



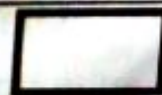
(a) Name the type of beehive drawn above.

(b) Give the reason why the beehive drawn above is placed in a tree shed.

(c) State **one** advantage and disadvantage of using the beehive drawn above.

(i) advantage: _____

(ii) disadvantage: _____



44. a) Which process in the body cells gives out **water vapour** as a waste product?

(b) Write any **two** requirements needed for the process mentioned in 44 (a) above to take place.

(i) _____

(ii) _____

(c) How does the body benefit from the process mentioned in 44 (a) above?



45. The diagrams below show two types of electric cells. Study them carefully and use them to answer the questions that follow.



- (a) Name the type of electric cell represented by letter;
- (i) S: _____
- (ii) R: _____
- (b) Give one reason why people prefer using electric cell R to using electric cell S.
- _____
- _____
- (c) State the change in energy that takes place in the above electric cells while in function.
- _____

46. Match the groups of animals in list A to their characteristics in list B correctly.

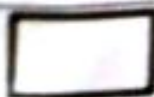
List A

arthropods
mammals
reptiles
molluscs

List B

- have scales covering the body.
- have segmented body.
- have soft bodies and a hard shell.
- have mammary glands.

- (i) arthropods: _____
- (ii) mammals: _____
- (iii) reptiles: _____
- (iv) molluscs: _____



47. a) Which soil component provides the required nutrients for crop growth?

(b) Write any **two** ways uncontrolled bush burning lowers the productivity of soil.

(ii) _____

(c) Mention any **one** activity that can be done by crop farmers to improve on the productivity of soil.

48. The diagrams below show three steps involved in cleaning clothes. Study them carefully and use them to answer the questions that follow.



(a) Name the steps of cleaning clothes shown at;

(i) F: _____

(ii) E: _____

(b) Give any **two** reasons why a P.7 candidate shouldn't miss out step marked with letter G as they clean their clothes.

(i) _____

(ii) _____

49. a) Which is the first type of teeth to develop in a baby?

(b) State any **two** practices people do to promote oral health.

(i) _____

(ii) _____

(c) Mention any **one** disorder of the teeth.



50. a) Give the meaning of the term "a food taboo".

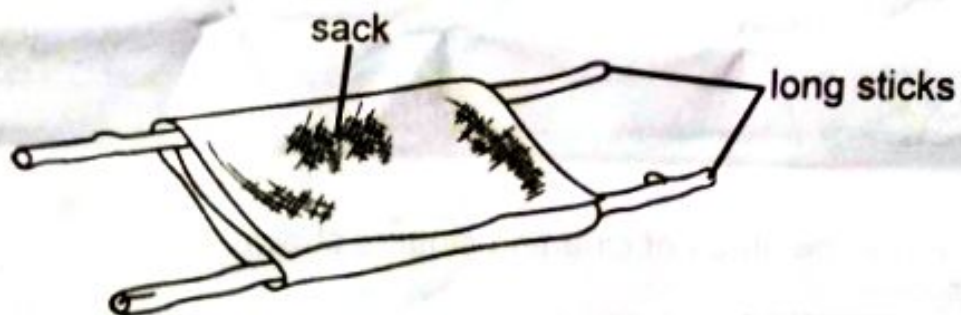
(b) Write any **two** examples of common food taboos in our community.

(i) _____

(ii) _____

(c) In which **one** way are food taboos a disadvantage in the community?

51. Below is a diagram showing a locally made first aid kit. Use it to answer the questions that follow.



(a) Give the name and function of the first aid kit shown in the diagram above.

(i) name _____

(ii) function _____

(b) State the reason why the first aid kit drawn above is not found in a first aid box.

(c) How are the long sticks useful on the first aid kit drawn above?



52. a) Which part of an insect is used for:

(i) attachment of legs? _____

(ii) smelling food? _____

(b) How do insects differ from spiders in the way they breathe?

(c) Mention any one way insects are useful to people.

53. a) Give any **two** reasons why abstinence from sex is encouraged among school going children.

(i) _____

(ii) _____

(b) Write any **two** ways school going children are made aware of PIASCY messages.

(i) _____

(ii) _____

54. a) State what happens when an object moves to and fro, or up and down.

(b) How do the following animals produce sound?

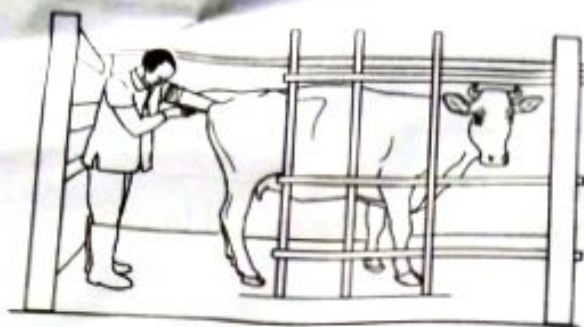
(i) grasshopper _____

(ii) a bat _____

(c) State any **one** way sound stored by writing notations can be reproduced.



55. The diagram below shows a type of insemination. Study and use it to answer the questions that follow.



- (a) Which type of insemination is illustrated in the diagram above?
- _____
- (b) Name the farm equipment used in the type of insemination drawn above.
- _____
- (c) How does the type of insemination drawn above help in reducing poor breeds of cattle on a farm?
- _____
- _____
- (d) Write one disadvantage of the type of insemination drawn above.
- _____

