

# THE SIPRO END OF TERM I EXAMINATION - 2022

## PRIMARY SEVEN INTEGRATED SCIENCE

Time Allowed: 2 Hours 15 Minutes

Index No.

EMIS No.						Personal No.		

Candidate's Name: \_\_\_\_\_

Candidate's Signature: \_\_\_\_\_

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		
Page 8		
Page 9		
Total		

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## SECTION A: 40 MARKS

Questions 1 to 40 carry **one** mark each.

1. Name the system of a flowering plant where flowers are found.  
\_\_\_\_\_
2. In which way do feathers keep birds warm when it is cold?  
\_\_\_\_\_
3. Give **one** way a chameleon benefits from changing the colour of its skin.  
\_\_\_\_\_
4. Which state of matter allows heat transfer by conduction?  
\_\_\_\_\_
5. How are chickens kept at home important in the control of some crop pests in the garden?  
\_\_\_\_\_
6. What food value is mainly obtained from eating honey?  
\_\_\_\_\_
7. State **one** characteristic that makes insects different from arachnids.  
\_\_\_\_\_  
\_\_\_\_\_
8. Which process in plants is involved in the water cycle?  
\_\_\_\_\_

The diagram below shows a type of latrine. Study and use it to answer questions 9 and 10.



9. Name the latrine shown above.  
\_\_\_\_\_





10. How best can a family maintain the latrine above in a good working condition?
- 
11. Why does a balloon full of air left in sunshine for some time burst?
- 
12. How does keeping goats help in the control of kwashiorkor in people?
- 
13. Which component of blood is attacked by plasmodia parasites?
- 
14. Why should every home have a First Aid box?
- 
15. How does regular washing of hands control the speed of **COVID-19** at school?
- 
16. Apart from oil, name **one** other substance used to prevent rusting of metals.
- 
17. Give **one** characteristic that makes loam soil suitable for crop growing.
- 
18. How is recycling of metallic scrap an important activity in managing resources in the environment?
- 
19. In which part of the alimentary canal does digestion of fats begin?
- 
20. Name the method of separating mixtures where coarse stones are used.
- 
21. Why are people in homes advised to boil water for drinking?
- 





The diagram below shows a vector. Study and use it to answer questions 22 and 23.



22. Mention **one** disease transmitted by the vector shown in the diagram above.

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23. Name **one** area where the vector shown above commonly breeds.

---

24. State **one** danger of staying in crowded places.

---

25. Give the reason why passion fruit plants should be grown alongside other plants with strong stems.

---

26. How does mulching conserve soil moisture?

---

27. Name **one** method of preserving fish which does not require the use of heat.

---

28. Give **one** adaptation that enables dogs to eat flesh of other animals.

---

29. Why do poultry farmers prefer rearing dual purpose chicken?

---

30. State **one** condition that can promote the breeding of bacteria.

---

31. Mention **one** disease a person suffers from due to serious smoking.

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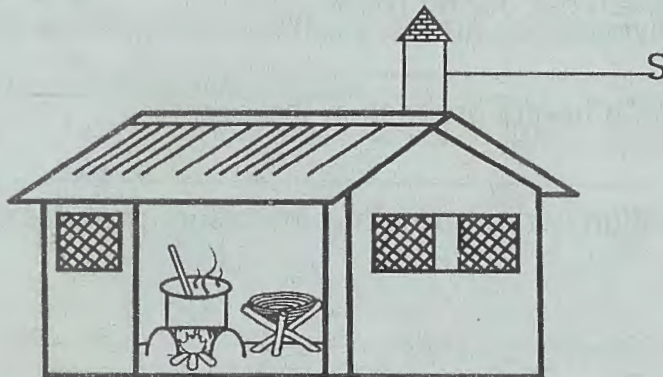




32. In which **one** way does the circulatory system benefit from the skeletal muscular system?

---

The diagram below is of a kitchen. Study and use it to answer question 33.



33. Name the part of a kitchen shown with letter **S** above.

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34. Give **one** use of electricity for pupils in a P.7 classroom.

---

35. Which organs in the human body filter blood?

---

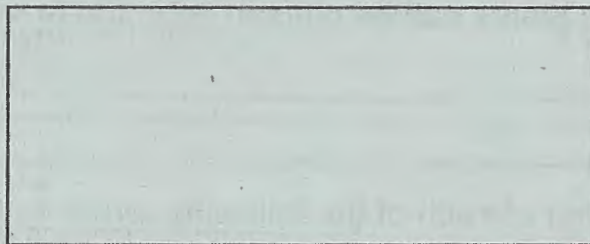
36. Name the thermometer with a constriction in it.

---

37. Why are people advised to observe the correct sitting posture?

---

38. In the space provided below, draw the male part of a flower.



39. How does breastfeeding promote family planning in women?

---

40. Why is a rat classified as a mammal?

---



## SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

b) Name the gas given out during respiration.

c) How is respiration a useful process in the body?

d) Apart from respiration, write **one** other important process that takes place in the human body.

42. a) Name the part of a vacuum flask that reduces heat loss or gain by conduction.

b) State **one** importance of a vacuum flask at home.

c) Write **two** proper ways of caring for a vacuum flask at home.

i)

ii)

43. a) Give **two** human activities that lower the quality of the environment.

i)

ii)

b) State **two** ways plants can be conserved in the environment.

i)

ii)

44. a) Give the meaning of each of the following terms as used in sheep rearing:

i) castration

ii) docking

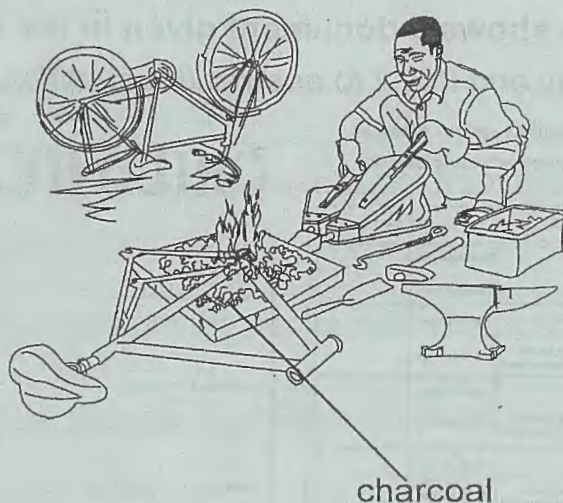




b) Which exotic breed of sheep is best known for wool production?

c) Mention **one** use of wool got from sheep.

45. The diagram below shows a man welding a bicycle locally. Study and use it to answer the questions that follow.



a) State the use of charcoal as shown in the diagram above.

b) Why does the man heat that part of the bicycle at a higher temperature?

c) Write **two** other uses of heat energy to people.

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

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

46.a) Give **two** examples of soil pollutants.

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

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

b) How are bacteria useful in the process of soil formation?

c) Which component of soil is used by plants during the process of photosynthesis?





47. a) Write **two** characteristics of seeds dispersed by wind.

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

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

b) Mention **two** advantages of seed dispersal to plants.

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

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

48. The diagram below shows a document given in the hospital after immunisation. Study and use it to answer the questions that follow.

Immunisation protects your child against serious diseases.

Follow and complete the immunisation schedule below:

	VACCINE	PROTECTS AGAINST	HOW GIVEN	DATE GIVEN
At Birth	BCG Polio 0	Tuberculosis Polio	Right Upper arm Mouth Drops	
At 6 Weeks	Polio 1 DPT-Heb1 + Hib 1	Polio Diphtheria/Tetanus/Whooping Cough/ Hepatitis B/Haemophilus Influenzae type B	Mouth Drops Left Upper thigh	
At 10 Weeks	Polio 2 DPT-Heb1 + Hib 2	Polio Diphtheria/Tetanus/Whooping Cough/ Hepatitis B/Haemophilus Influenzae type B	Mouth Drops Left Upper thigh	
At 14 Weeks	Polio 3 DPT-Heb1 + Hib 3	Polio Diphtheria/Tetanus/Whooping Cough/ Hepatitis B/Haemophilus Influenzae type B	Mouth Drops Left Upper thigh	
9 Months	MMR1	Measles	Left Upper arm	

Take your child for immunisation even if the scheduled date is missed

AGE	VITAMIN A	DEWORMING	
	Date given	Date given	Medication
6 Months			
1 Year			
1 1/2 Years			
2 Years			
2 1/2 Years			
3 Years			
3 1/2 Years			
4 Years			
4 1/2 Years			
5 Years			
5 1/2 Years			
6 Years			

DATE VISITING A SPECIALIST CLINIC

## CHILD HEALTH CARD

District: _____		Child's Registration No. _____
Health Unit: _____		Birth Weight (Kgl) _____
Child's Name: _____		Birth Order _____
Sex: _____	Date of Birth: ____/____/____	
Mother's Name: _____		Mother's Occupation: _____
Father's Name: _____		Father's Occupation: _____
Where the Child lives: _____		
Sub County/Division: _____		
Parish: _____		
L.C.I: _____		

TICK REASONS FOR SPECIAL CARE	
Birth weight less than 2.5 kg	Brothers or Sisters undernourished
Birth defect	Mother dead
Other handicaps or illness	Father dead
Fifth child or more	3 or more children in family died
Birth less than 2 yrs after last birth	Term child

ANOTHER REASON FOR SPECIAL ATTENTION

\_\_\_\_\_

a) Name the document shown in the diagram above.

\_\_\_\_\_

b) State **two** importance of the document above to the parent.

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

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

c) How does immunisation reduce the infant mortality rate?

\_\_\_\_\_





49. a) Give **one** injury to the skin whose First Aid is dipping the injured part into clean cool water.

b) Why is the injured part from the injury in (a) above dipped in clean cool water?

c) Apart from the accident to the skin, name **two** other examples of common accidents at home.

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

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

50. a) Write **two** methods of obtaining clean water from muddy water.

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

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

b) Why is water obtained from the above method not recommended for drinking?

c) Name **one** chemical used to treat water obtained above to make it safe for drinking.

51. a) Which process forms dew on plant leaves at night?

b) Why is dew formed at night?

c) What process makes dew to disappear during the day?

d) Which form of energy makes dew disappear during day time?

52. a) Mention **two** disorders of digestion that involve difficulty in passing out of stool.

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

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

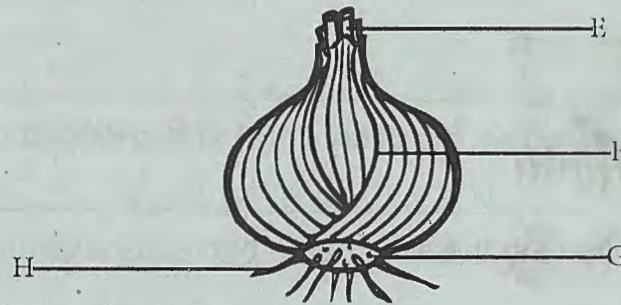
b) Give the class of food that is recommended for someone to have in the diet to solve one of the disorders in (a) above.

c) Apart from having a balanced diet, state **one** other practice that prevents disorders of the digestive system.





53. The diagram below shows an onion. Study and use it to answer the questions that follow.



a) Name parts **G** and **H** on the diagram above:-

(i) G \_\_\_\_\_ (ii) H \_\_\_\_\_

b) To which group of underground stems does the one shown above belong?

c) How is the function of part **E** different from that of part **F**?

d) Give **one** example of a plant with the stem shown above.

54. a) Give **two** reasons why crop farmers carry out crop rotation.

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

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

b) Why do farmers include legumes in the crop rotation cycle?

c) Mention **one** other practice that improves soil fertility in the garden, besides crop rotation.

55. Match the components of blood in list **A** to their use in list **B**.

**A**

red blood cells

plasma

white blood cells

platelets

**B**

transports body wastes

fight germs

transport oxygen

clot blood in case of a wound.

(i) red blood cells \_\_\_\_\_

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

(iii) platelets \_\_\_\_\_

(iv) white blood cells \_\_\_\_\_

