



HILLSIDE PRIMARY SCHOOL  
**BEGINNING OF TERM THREE EXAMINATIONS**  
2023

**INTEGRATED SCIENCE (SET TWO)**  
*Time Allowed: 2 Hours 15 Minutes*

Index No. 

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Candidate's Name.....Stream.....

Candidate's Signature.....

EMIS No.....

District Name.....

**Read the following instructions carefully**

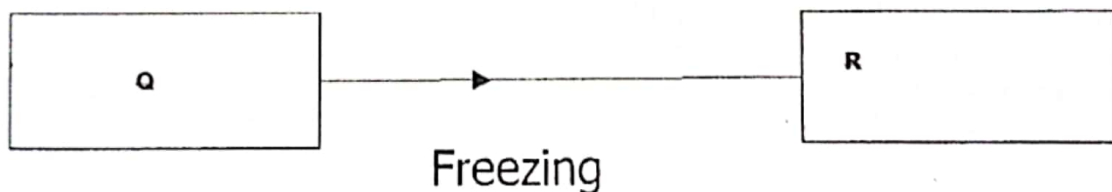
1. The paper has two sections: **A** and **B**.  
Section **A** has 40 questions and Section **B** has 15 questions
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. **All** answers must be written using a blue or black ball-point pen or fountain pen. Any work written in pencil other than graphs and diagrams will not be marked
4. Unnecessary changes in work may lead to loss of marks.
5. Any handwriting that cannot easily be read may lead to loss of marks.
6. Do not fill anything in boxes indicated: **"For Examiners' Use Only"** and those inside the paper.

FOR EXAMINERS' USE ONLY		
Qn. No.	MARKS	EXRS' NO
1-10		
11-20		
21-30		
31-40		
41- 43		
44- 46		
47- 49		
50- 52		
53- 55		
TOTAL		

### SECTION A:

1. Give any one example of an eye defect.  
.....
2. Mention the component of air that enables plants to make proteins.  
.....
3. How is the hepatic portal vein useful in the body?  
.....  
.....
4. Which method is used to recover salt from its solution?  
.....  
.....
5. Give any one importance of roots to a plant.  
.....  
.....
6. Identify any use of essential drugs.  
.....

The diagram below shows a change in state of matter. Use it to answer the questions 6 and 7.



7. What is the state of matter at Q?

.....

8.State any one effect of heat on the state of matter marked with letter R.

.....

9. How are halteres useful to an insect?

.....

10. Which body organ is greatly damaged by hepatitis B?

.....

11. What role does bacteria play in the food chain?

.....

.....

12. Why should a health facility have a clinical thermometer?

.....

.....

13. What scientific term is used to refer to the end product of proteins?

.....

14. How is the cotyledon useful to a germinating maize grain?

.....

.....

15. Name one essential mineral salt promotes the proper growth of the skeleton.

.....

.....

16. Suggest any one advantage of artificial insemination.

.....

17. Mention any one common primary sex characteristic in boys and girls

.....

.....

18. Why do farmers prefer rearing cross breeds to exotic breeds of animals?

.....

.....

**Study the diagram below and answer the question that follow**



19. Name one bird that has such type of foot..

.....

20. By what process do plants make their own food?

.....

21. Why can't a leaf sink in water?

.....

.....

22. Give any one conserving woodfuel.

.....

23. State the best way an adolescent girl can avoid getting teenage pregnancy.

.....

24. Mention any one way how the skin regulates temperature on hot days..

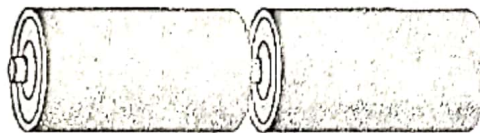
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25. What is the importance of a lightning conductor in our daily life?

.....

.....

**Use the diagram below to answer the question 26 .**



26. What is the electric pressure in the above cell arrangement?

.....

27. How does crop rotation control soil erosion?

.....

.....

28. Give the intestinal worm people get when they eat half cooked.

.....

29. What is drug abuse?

.....  
.....

30. How is a blubber important to sea mammals?

.....  
.....

31. State one importance of echo to bats.

.....

32. What happens to the volume of a liquid when it freezes?

.....  
.....

33. How is sound produced by a school bell reach the ears of the learners?

.....  
.....

34. Odeke was given a contract to supply eggs to Kyamate Primary School, identify the type of chicken that should be reared.

.....

35. Mention any one example a poultry vice whose control is debeaking.

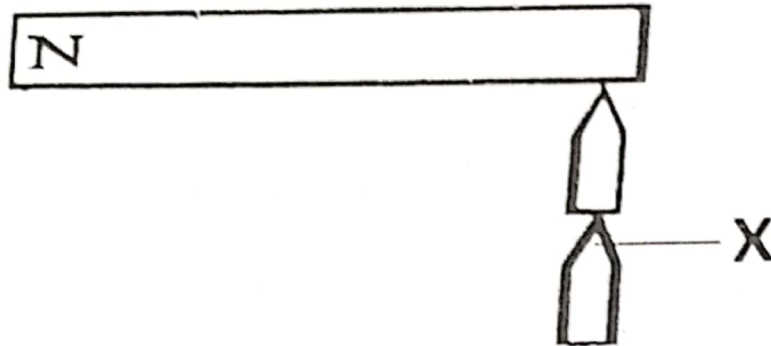
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36. State any one way of controlling diphtheria in infants.

.....  
.....



The diagram below shows a method of making a temporary magnet. Study and use it to answer questions 37 and 38.



37. Name the method shown above.

.....

38. What will be the pole at X after magnetization?

.....

39. State any one danger of uncontrolled bush burning in the environment.

.....

40. Mention one importance of dipping animals in acaricides.

.....

### SECTION B:

41. (a) Write brief notes on each of the following terms;

(i) Pruning

.....

.....

(ii) Thinning

.....

(b) How does mulching of crops promote the following;

(i) Conservation of soil moisture

.....

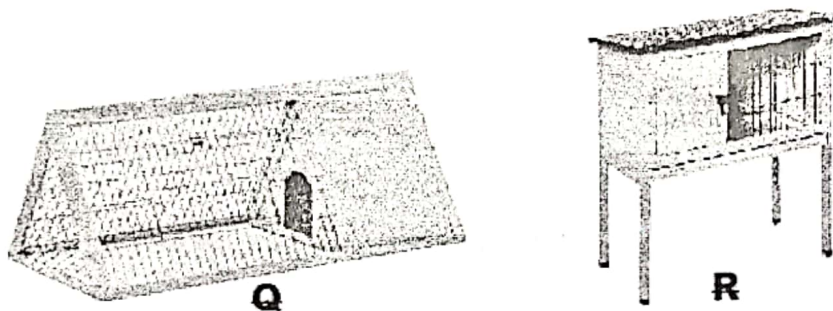
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(ii) Improving soil fertility

.....

.....

**42. The diagram below shows rabbit hutches. Study them carefully and answer the questions that follow.**



(a) Name the rabbit hutches marked with letters Q and R.

Q .....

R .....

(b) Give one importance of a wire mesh on the rabbit hutch Q.

.....



(c) State one advantage of rearing rabbits.

43(a) Which type of soil erosion create small water channels?

(b) Mention any two causes of soil erosion.

(i) .....

(ii) .....

(c) State any one way of way of controlling soil erosion.

44. Study the table below and fill in the gaps

Part of the body	Enzyme produced	Food acted upon
.....	Salivary amylase	Carbohydrates
Stomach	.....	Proteins
Duodenum	Lipase	.....
.....	Maltase	Maltose

45(a) Which blood group do each of the following people have?

(i) Universal donor

.....

(ii) Universal recipient

.....  
(b) Give a reason why blood should be screened before transfusion

.....  
(c) State any one function of blood in the body.

.....  
46(a) What is air pollution?

.....  
(b) Mention any two activities that can lead to air pollution.

(i) .....

(ii) .....

(c) How do trees planted near an industry help to clean the air around it?

.....  
47 (a) Mention two examples of chemical changes.

(i) .....

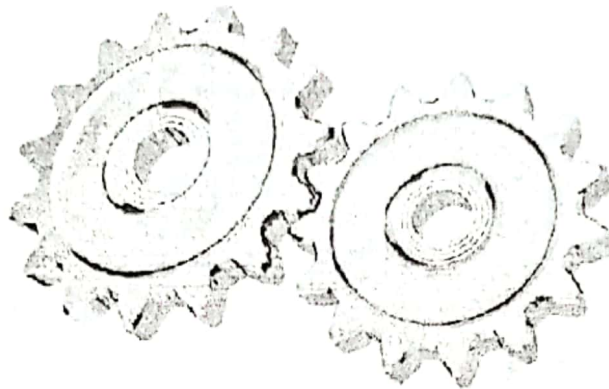
(ii) .....

(b) Write down two characteristics of chemical changes.

(i) .....

(ii) .....

48. The diagram below shows a simple machine. Study it and answer questions that follow.



(a) Name the simple machine shown above.

.....

.....

(b) Use arrows to show the directional movement of the above machine.

(c) Identify the type of simple machine to which the above machine belong.

.....

(d) State one way how the above machine simplifies work.

.....

.....

49 (a) Write the meaning of term sanitation.

.....

.....

(b) Identify the type of toilet in which the following practices are applied:

(i) Adding ash to the faecal matter.

.....

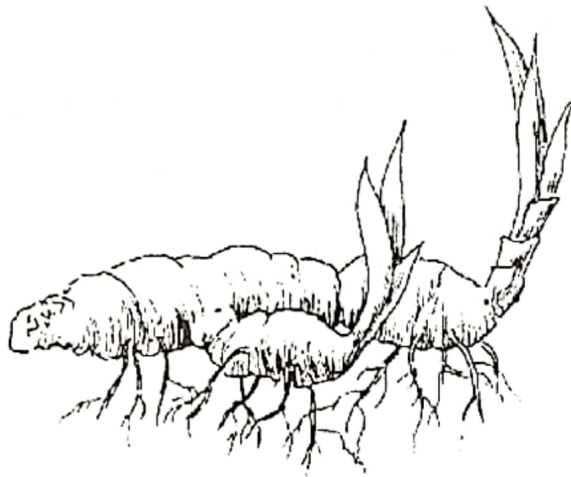
(ii) Flushing faecal matter using water.

.....

(c) State one danger of improper use of toilets at home.

.....

50. The diagram below shows a plant with an underground stem . Use it to answer questions that follow.



(a) Name one plant that has the above stem.

.....

(b) How are plants with the above stem propagated?

.....

(c) State any one of caring for the above plant.

.....

(d) Name the root system in the above diagram.

.....

51.(a) Identify any two causes of dehydration among people.

(i).....

(ii) .....

(b) Write down any one sign of a dehydrated child.

.....

(c) How is dehydration different from rehydration?

.....

.....

52.a) Identify one product obtained from pigs.

.....

.....

b) Give any two examples of exotic breeds of pigs kept in Uganda.

(i).....

(ii).....

c) Define the term farrowing as used in piggery?

.....

.....

53(a) Give two local ways of preserving food.

(i).....

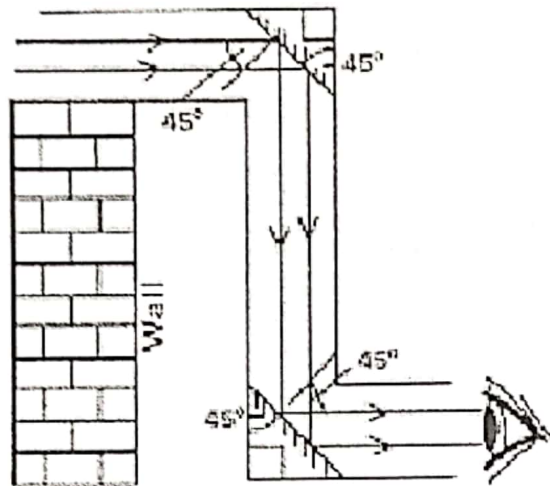
(ii).....

(b) Suggest any two ways of preventing food contamination..

(i) .....

(ii) .....

54. Study the diagram below shows an optical instrument. Use it to answer the questions that follow.



a) Name the optical instrument shown above.

.....

b) Which type of mirrors are used in the above optical instrument?

.....

c) How is the above instrument helpful to soldiers?

.....

.....

(d) Identify any one principle of light on which the above instrument works.

.....



**55. Match the diseases to their germs correctly.**

**A**

- (i) Sleeping sickness
- (ii) Riverblindness
- (iii) Elephantiasis
- (iv) Bilharziasis

**B**

- Schistosoma.
- Trypanosoma
- Onchocerca volvulus
- Filarial worm

- (i) Sleeping sickness .....
- (ii) Riverblindness .....
- (iii) Elephantiasis .....
- (iv) Bilharziasis .....

**END**