



HILLSIDE PRIMARY SCHOOL  
**PRE-PRIMARY LEAVING EXAMINATIONS**

**2024**

**INTEGRATED SCIENCE (SET ONE)**

*Time Allowed: 2 Hours 15 Minutes*

**Index No.**

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**Candidate's Name**.....

**Candidate's Signature**.....

**Stream**.....

**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. State any one similarity between the images formed in the human eye and lens camera.

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.....

2. Why do some farmers prefer keeping angora goats to other breeds of goats?

.....  
.....

3. How are the organisms found in the root nodules of leguminous plants important in the soil?

.....  
.....

4. To which type of bones do we group the carpals?

.....

5. How are pepsin enzymes found in gastric juice important during food digestion?

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.....

6. Apart from being used in production of biogas, how is cow dung important to people?

.....  
.....

7. How are trees important to people besides providing timber?

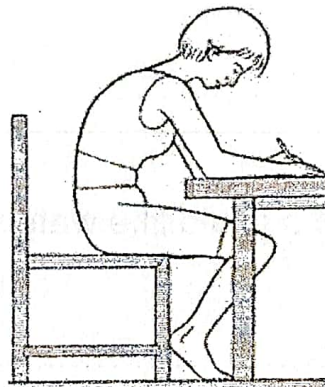
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8. Identify the force that is involved in the production of static electricity.

.....

The diagram below shows a student reading her books. Use it to answer questions 9 and 10.



9. What bad habit is shown in the above diagram?

.....

10. State one health problem that can result from the above habit.

.....

.....

11. Why does blood from the heart go to the lungs?

.....

.....



12. Mention any one effect of over blowing the nose?

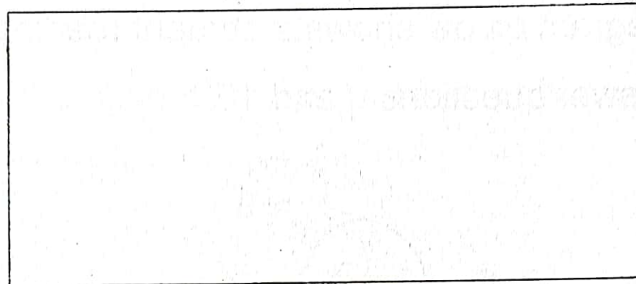
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13. State any one importance of sand soil to people.

.....

.....

14. In the space below, draw a compound trifoliate leaf.



15. What will happen to a liquid like water when poured on a slanting ground?

.....

.....

16. How is soap important in promoting personal hygiene?

.....

17. Identify any one part of air which is commonly used in electric bulbs.

.....

18. Why are school children advised not to read books in dim light?

.....

19. Mr. Muwanguzi is a poultry farmer in Mpigi district. How can he identify birds which are sick on his farm?

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.....

20. What advice can you give to an adolescent boy who has started the habit of smoking?

.....

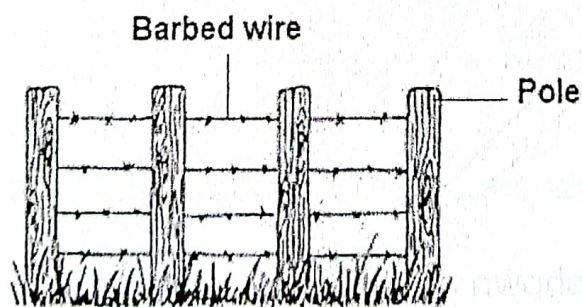
Why does the government of Uganda provide free mosquito nets to all people in the country?

.....  
.....

21. How can a tomato farmer prevent the tomato fruits from rotting in the garden?

.....  
.....

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



22. Name the farm structure shown above.

.....

23. How are the barbed wires important on the farm structure shown above?

.....

24. State any one role of bacteria in a food chain.

.....

.....

25. What is the importance of feeding an "in calf" on highly nutritious feeds?

.....

.....

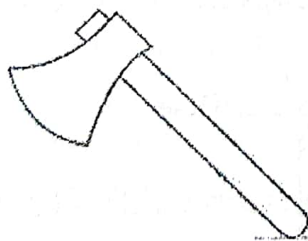
26. Give one way a person can increase the amount of calcium in his body.

.....

27. Point out any one health concern that is likely to arise in an area with many industries?

.....

The diagram below shows a device commonly used in rural areas. Use it to answer questions **28** and **29**.



28. Name the device shown above.

.....



29. How does the device above simplify the work of splitting firewood?

.....  
.....

30. Give the function of the reflector in a torch.

.....  
.....

31. Mention any one industrial use of feathers.

.....  
.....

32. What do you understand by the term fertilization?

.....  
.....

33. Why are people discouraged from burning rubbish and other wastes?

.....  
.....

34. When a magnet is dipped in iron filings, more iron filings are attracted to the poles of the magnet. Why is this so?

.....  
.....

35. Why do health workers like doctors ask for the age of the patient?

.....  
.....

36. State any one sign of crops damaged by caterpillars.  
.....

37. Name the part of the skeleton that protects the brain.  
.....

38. Why is it a bad practice to store cooked food in a room where domestic animals are kept?  
.....  
.....

39. State any one sign of COVID-19.  
.....  
.....

**SECTION B**

41. Match the following organisms with their respiratory organs.

<b>A</b>	<b>B</b>
a) Ticks	Skin
b) Fish	Lung books
c) Earthworms	Gills
d) Amoeba	Spiracles
	Cell membrane
a) Ticks .....	
b) Fish .....	
c) Earthworms .....	
d) Amoeba .....	



42.a) Under what body system do the ears belong?

.....

b) How does sound travel from one place to another?

.....

.....

c) State the function of the semicircular canals in the inner ear.

.....

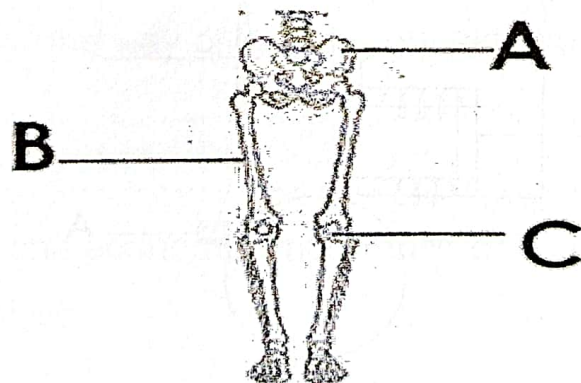
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d) Why is it not recommended for one to use sharp objects to clean one's ears?

.....

.....

43. The diagram below is part of the skeletal system. Use it to answer the questions that follow.



a) Name the bone marked A.

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b) How important is the part marked **C**?

.....  
.....

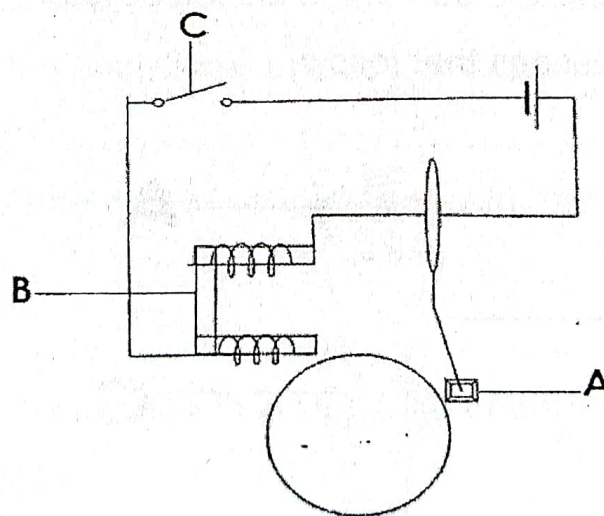
c) State any one disorder that can happen to bone marked **B**.

.....  
.....

d) Mention one any of maintaining the above system in proper working order.

.....  
.....

44. The diagram below shows a simple device commonly used in schools.



a) Name the device shown above.

.....

- b) Identify the parts marked **A** and **B**.
- i) **A** .....
- ii) **B** .....
- c) Under what principle does the above device work?

.....

.....

45. a) How does the skin help to regulate body temperature?

.....

.....

b) State any one reason why we should always wear well-fitting shoes.

.....

.....

c) Mention any one fungal disease that affects the skin.

.....

d) State any one way of keeping our skin healthy.

.....

.....

46. a) State one economic importance of houseflies in our communities.

.....

.....



b) How are houseflies able to balance their bodies during flight?

.....  
.....

c) What name is given to the larvae of?

i) Butterflies .....

ii) Mosquitoes .....

47. During the cooking process, firewood is arranged in such a way that some gaps are left between the pieces of wood.

a) Why is such a practice important during the cooking process?

.....  
.....

b) What form of energy is stored in wood?

.....

c) Apart from firewood, mention two other forms fuel obtained from trees.

i) .....

ii) .....

48. Arthropods are invertebrates with jointed legs and segmented bodies. Mention the group of arthropods where the following belong.

a) Scorpion .....

b) Millipede .....

c) Housefly .....

d) Earthworms .....

49. a) What are air pollutants?

.....  
.....

b) State any one effect of water pollution.

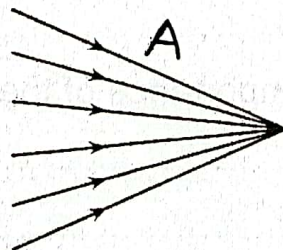
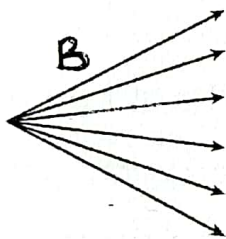
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c) Mention any two ways of preventing water pollution.

i) .....

ii) .....

50. a) Identify the type of beam shown below.



i) **A** .....

ii) **B** .....

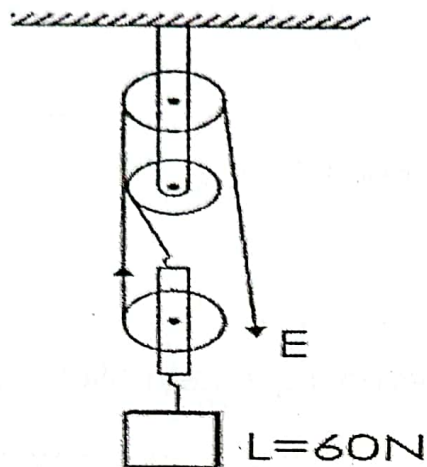
b) How can one see an object placed around corners?

.....  
.....

c) State any one effect of refraction of light.

.....  
.....

51. The diagram below shows a diagram of a simple machine.



a). Name the type of simple machine shown in the diagram above

.....

b). State any one importance of the above simple.

.....

.....

c). Calculate the effort needed to raise the load of 60N using the above machine.

.....

52. a) Name one crop pest that attacks maize grains in a store.

.....

b) Write one danger of storage pests to crop farmers?

.....

.....



c) Give any two ways storage pests can be controlled.

i) .....

ii) .....

53. (a) Write down any one method that can be used to store sound.

.....

(b) Mention one device that can store sound.

.....

(c) Give one reason why we need to store sound.

.....

.....

(d) How is an echo similar to an image?

.....

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54. a) Identify one advantage of crop rotation as a farming practice.

.....

.....

b) Why do farmers include legumes in the above farming practice?

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.....

c) How does crop rotation as a farming practice control pests?

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.....

d) Give a reason why farmers carry out staking to their crops.

.....  
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55. a) Define the term, "germination".

.....  
.....

b) How is the micropyle important during germination?

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.....

c) What type of germination do maize grains undergo?

.....

d) Why does the radical come out first during germination?

.....  
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**END**