



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

2023

**INTEGRATED SCIENCE (SET FOUR)**

*Time Allowed: 2 Hours 15 Minutes*

**Index No.**

<b>Random No.</b>					<b>Personal No.</b>		

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

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

**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.

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

1. Name one source of food.

.....  
.....

2. Identify the vitamin deficiency disease that affects the baby's skeleton.

.....  
.....

3. What type of germination occurs in ground nuts?

.....  
.....

4. State one raw material needed for photosynthesis to take place.

.....  
.....

5. What term is given to invertebrates that have jointed legs and segmented bodies?

.....  
.....

6. In which state of matter is powdered milk?

.....  
.....

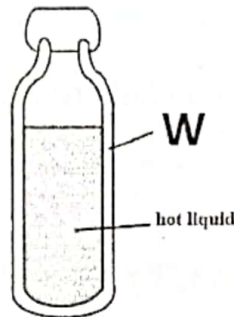
7. Name the chemical used to kill the external parasites in livestock.

.....  
.....

8. Which system of the body do we find the blood cells?

.....

The diagram below is equipment found in some homes. Use it to answer questions 9 and 10.



9. How does heat travel through part marked W?  
.....  
.....
10. What can be done to prevent heat loss or gain through part W?  
.....  
.....
11. Why are pair of tweezers regarded as third-class-levers?  
.....  
.....
12. Mention one requirement for starting a poultry farm.  
.....  
.....
13. Give one breed of goat that promotes the textile industry.  
.....  
.....
14. Name the gas which increase around the plant during photosynthesis.  
.....  
.....

15. Why does a fish move from place to place in water?

.....

.....

16. State one health practice that can help to control the spread of COVID-19.

.....

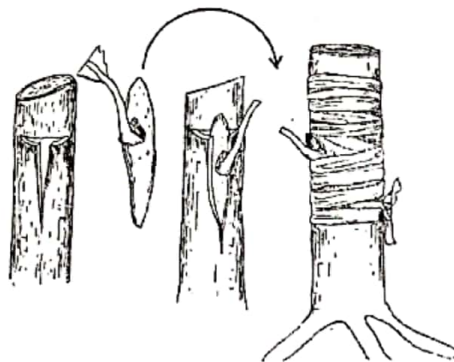
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17. What type of energy is possessed by steam?

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.....

Use the diagram below to answer questions 18.



18. Identify the method of propagation shown above.

.....

.....

19. Define the term "fainting".

.....

.....

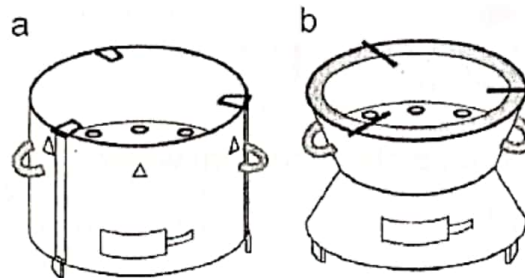
28. How does a coconut seed behave when dropped in water?

.....  
.....

29. Which disease in rabbits is noticed by the following characteristics: scratching of the: scratching: scratching of the ears and head shaking?

.....  
.....

**Below are diagrams of two different charcoal stoves. Use them to answer question 30.**



30. Why would you advise people to use charcoal stove 'a' rather than 'b'?

.....  
.....

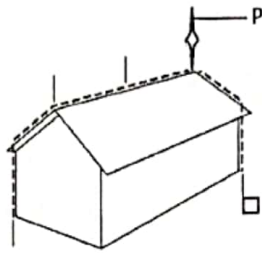
31. How do PIASCY messages minimize school dropout among school girls?

.....  
.....

20. Why are worker bees always seen around the farmer's crops?  
.....  
.....
21. Give the importance of the tunnels created by the earthworms in the soil.  
.....  
.....
22. Why do butterflies lay eggs on the underside of the leaves?  
.....  
.....
23. How does painting prevent rusting of metals?  
.....  
.....
24. Name any one energy resource obtained from water.  
.....  
.....
25. State the danger of removing a small insect that has entered into the ear using a safety pin.  
.....  
.....
26. Which component of soil provides the seed embryo with energy to germinate?  
.....  
.....
27. Give one use of iodine to a first aider.  
.....  
.....



Study the diagram below and answer questions 32 and 33.



32. Name the structure you have named in (32) above.

.....  
.....

33. State the importance of the structure you have named in (32) above.

.....  
.....

34. How is a child immunization card useful to the child's father?

.....  
.....

35. Give a reason why respiration is an important process in the human body.

.....  
.....

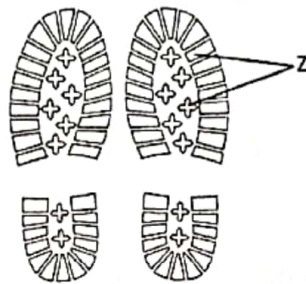
36. Which structure of a frog plays a similar role as the gills of a fish?

.....  
.....

37. Why does a stone thrown in the air fall back to the ground?

.....  
.....

Use the diagram below to answer questions 38 and 39.



38. Identify the structures marked Z.

.....  
.....

39. Why are the structures you have named in (38) above designed on the shoe sole?

.....  
.....

40. Give any one way in which the volume of blood can be increased in the body.

.....  
.....

### SECTION B

41. a) What is immunization?

.....  
.....

b) Name the childhood killer disease which is immunized through injection on the left upper arm.

.....



c) At what age is the vaccine against the disease you have given in above administered in the child's body?

.....

.....

d) State one way in which school children can promote immunization programmes in the community.

.....

.....

42 .a) Apart from farm yard manure, name two other examples of natural fertilizers.

i) .....

ii) .....

b) Give one importance of mulching in tomato plantations.

.....

.....

c) State one advantage of row planting over broadcasting.

.....

.....

43 a) To which group of cold-blooded vertebrates does a mudfish belong?

.....

b) How is reproduction in fish similar to that in frogs?

.....

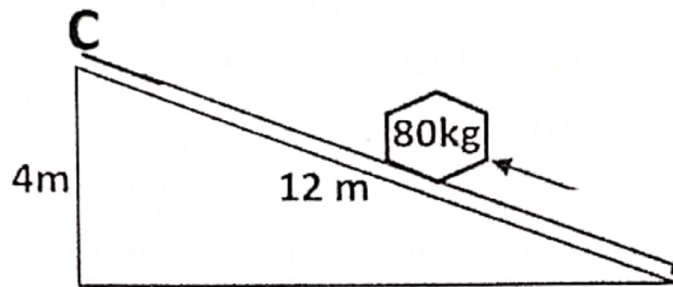
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c) State the function of the following parts to the fish.

i) Nostril.....

ii) Caudal fin.....

44. The diagram below is of a simple machine. Use it to answer questions about it.



- a) Identify the class of simple machines shown above.  
.....  
.....
- b) State the distance moved by the load to reach point C.  
.....  
.....
- c) Give any one force that prevents the above machine from working effectively.  
.....
- d) Outline one way machines simplify work.  
.....

45. a) Briefly explain the meaning of the term "echo."

.....  
.....

- b) How is an echo useful to a ship captain?

.....  
.....

c) Give two ways of preventing echoes in cinema halls or theatres.

i) .....

ii) .....

46. a) Outline any two possible places at home where near drowning can occur.

.....  
.....

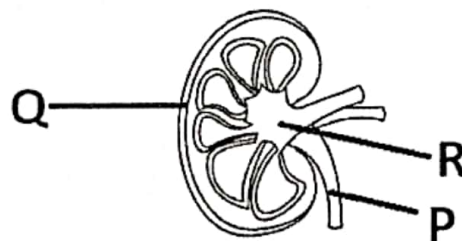
b) State the first aid you can give to a near-drowned person.

.....  
.....

c) Why are the legs of a fainted person raised above the level of the head?

.....  
.....

47. Study the diagram of a Kidney and answer the questions that follow.



a) Name the parts P and R.

i) P.....

ii) R.....

b) Identify the part on the diagram where the filtration of blood takes place.

.....

c) Give one disease which affects the above organ.

.....

48. a) What are root tubers?

.....  
.....

b) Mention any two examples of stem tubers.

i) .....

ii) .....

c) Why do plants with weak stems climb other plants?

.....  
.....

49. a) Briefly explain drug prescription.

.....  
.....

b) John went to the clinic to buy some drugs. The nurse wrote 2x3 on a packet where she had put the tablets. After how long should John swallow the drugs?

.....

c) State two dangers of buying drugs from unauthorized places.

i) .....

ii) .....

50. a) Give one reason why food is preserved.

.....

b) Mention any two local methods of preserving food.

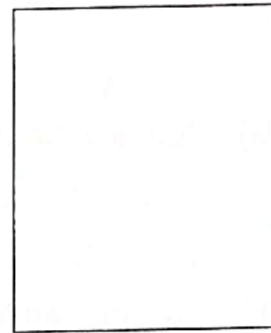
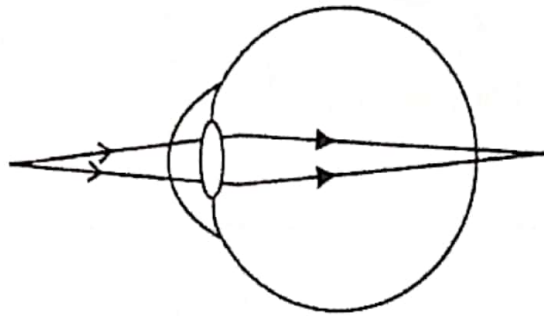
i) .....

ii) .....

c) How does carbon dioxide preserve bottled drinks like soda?

.....  
.....

51. Study the diagram below and answer the questions that follow.



a) Identify the eye defect shown in the diagram above.

.....  
.....

b) Draw a lens **in the box above** which can help to correct the defect.

c) Outline any two characteristics of images formed in the human eye.

i) .....

ii) .....

52. a) Give any two breeds of cattle kept for milk production.

i) .....

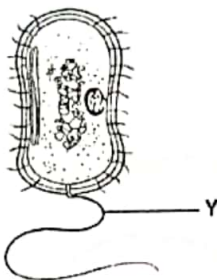
ii) .....

b) Mention any two types of records kept on a livestock farm.

(i).....

(ii).....

53. Use the diagram to answer the questions that follow.



a) Identify the organism shown above.

.....  
.....

b) Name part Y

.....  
.....

c) Give any two uses of fungi to man.

- i) .....
- ii) .....

54 (a) What are antisocial behaviours?

.....  
.....

(b) Mention any two examples of antisocial behaviours among school children.

- i) .....
- ii) .....

(c) Suggest one solution that can help to prevent antisocial behaviours among school children.

.....  
.....



55. Match the vectors in list A to the diseases they spread in list B.

**A**

**B**

- |            |               |
|------------|---------------|
| i) Aedes   | typhus fever  |
| ii) Lice   | elephantiasis |
| iii) Culex | plague        |
| iv) Fleas  | yellow fever  |

- |            |       |
|------------|-------|
| i. Aedes   | ..... |
| ii. Lice   | ..... |
| iii. Culex | ..... |
| iv. Fleas  | ..... |

**END**