



HILLSIDE PRIMARY SCHOOL  
**BEGINNING OF TERM TWO EXAMINATIONS**  
**2024**

**INTEGRATED SCIENCE (SET SIX)**  
*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:

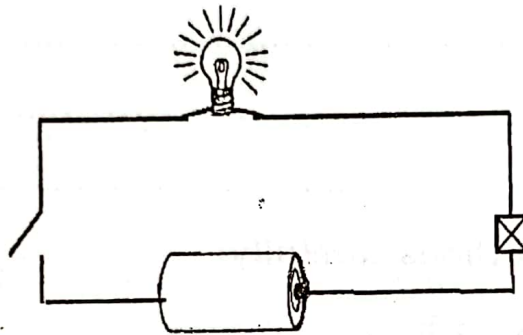
1. How do we call a family composed of a father, mother and their biological children together with a house keeper?

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2. State **one** role played by a tippy tap in promoting good health.

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3. Using letter X, show on the diagram of an electric circuit, the part that produced electricity.



4. What is the voltage in the circuit shown below?

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5. Mention any **one** activity a P.7 pupil should carry out to promote cleanliness in a home.

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6. How does mulching help to improve soil fertility in a garden?

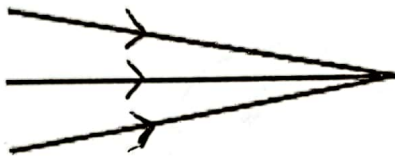
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7. Identify the group of simple machines in which the tool below belongs.



8. Give any **one** health problem caused by smoking to an individual.

9. Identify the type of beam of light shown below.



10. How is the functioning of a fuse similar to that of a switch?

11. What mineral is necessary for good formation of bones and teeth?

12. Write down a disease that attacks both rabbits and poultry.

13. Why is it not good to breathe through the mouth instead of the nose?

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14. Identify any situation where living things depend on non-living things in the environment.

.....  
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15. Apart from being vertebrates, state one other way in which the following animals are similar. **(Crocodile, Fish, Eagle)**

.....  
.....

16. Under what group of birds does the one with such a beak belong?



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17. Give the scientific word that refers to the three small bones in the human ear.

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18. State **one** advantage of using mercury in thermometers over alcohol.

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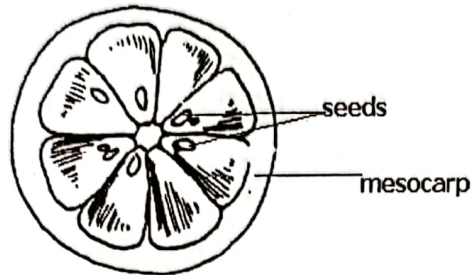


19. Name the gas released by plants during photosynthesis.

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20. The diagram below shows an example of a succulent fruit. How is such a fruit dispersed?



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21. What role does insulin play in the body?

.....

.....

22. How does electricity help in the conservation of the environment?

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23. Name any **one** disease that affects the liver.

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24. How does mulching control the growth of weeds in a garden?

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25. **5R's** is one way of controlling wastes in the environment. Name any one of the **R's**.

.....

.....

26. If a stone with a mass 225g displaced 15cm<sup>3</sup> of water, what was its density?

.....

27. Suggest any **one** way firewood can be saved.

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.....

28. Identify any one endo-parasite in man.

.....

.....

29. How does a blanket thrown over a burning fire put it off?

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30. How can you obtain salt from a water salt solution?

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.....

31. Give one advantage of prolonged breast-feeding to mothers.

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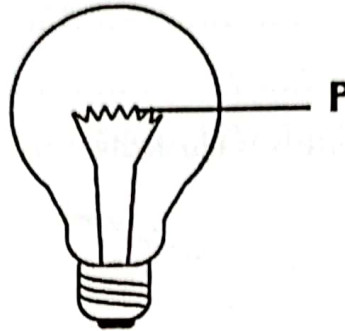
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32. Identify any **one** practice carried out on a goat farm to identify animals.

.....

.....

33. Why is the part marked P coiled?



34. How is paddock grazing of greater importance to farmers?

35. In our environment, the atmosphere is filled by air. Mention the component of air that takes up **0.97%**.

36. How are babies protected against some killer diseases at birth?

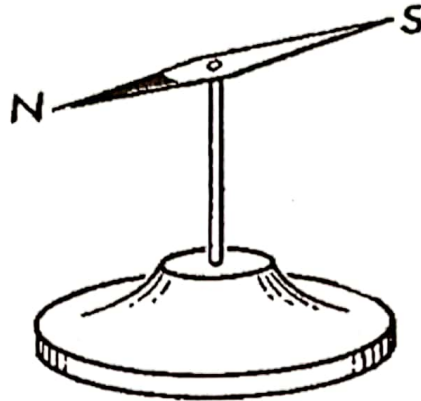
37. What problem is most likely to be faced by young girls who get pregnant before completing school?

38. Write **R H U** in full.

39. Why is evaporation said to be a physical change?

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.....

40. What property of magnets is illustrated by the diagram below?



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#### SECTION B:

41(a) State any **two** types of nutrition in living organisms.

(i) .....

(ii) .....

(b) Why can't a mushroom make its own food?

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.....

(c) How is the sun important during photosynthesis?

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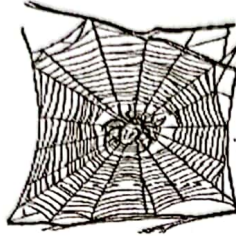
42(a) State any **two** community health concerns.

(i) .....

(ii) .....



- (b) Write down **two** diseases that arise from poor water supply.
- (i) .....
- (ii) .....
43. The diagram shows a home of a certain animal.



- (a) Name the structure shown above.  
.....
- (b) Which animal uses such a structure?  
.....  
.....
- (c) Why is it unhealthy to leave such structures in a human house?  
.....  
.....
- (d) Under what group of invertebrates is the animal you have named in (b) above?  
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44(a) Name the method of making alcohol that involves heating.

- .....  
.....
- (b) What role is played by yeast in the process of preparing alcohol?  
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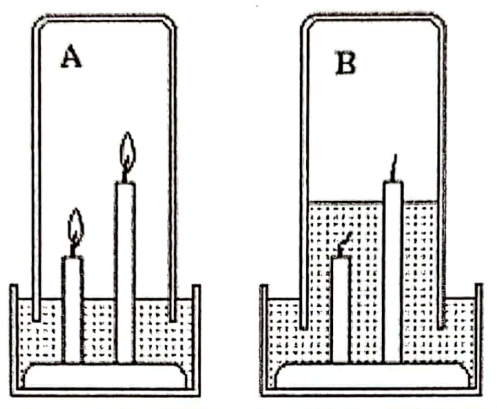
(c) Identify one danger of alcohol to an individual.

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(d) How can an alcoholic be helped to stop this habit?

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45. Study the experiment below and answer questions that follow.



(a) Why do the candles continue burning for some time in **A**?

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.....

(b) Why do you think the candles in **B** went off?

.....  
.....

(c) Identify the gas that was greatly formed in **B**.

.....  
.....

(d) What does the experiment above show?

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.....

46. (a) Mention any **two** common health concerns.
- i).....
- ii).....
- (b) State any **one** indicator of poor sanitation at home.
- .....
- (c) Suggest **one** way how the government prevents the outbreak of infectious diseases.
- .....
- .....

47. **Match the items in group A with those in group B.**

<b>Group A</b>		<b>Group B</b>	
(i) Kangaroo	-	sea mammals	
(ii) Duckbilled platypus	-	gnawing mammals	
(iii) Rabbits	-	pouched mammal	
(iv) Dolphins	-	flying mammal	
	-	egg laying mammal	
(i) Kangaroo	.....		
(ii) Duck billed platypus	.....		
(iii) Rabbits	.....		
(iv) Dolphins	.....		

48. **Soil is one of the most important resources man needs to carry out many activities.**

- (a) Identify any two components of soil.
- (i) .....
- (ii) .....

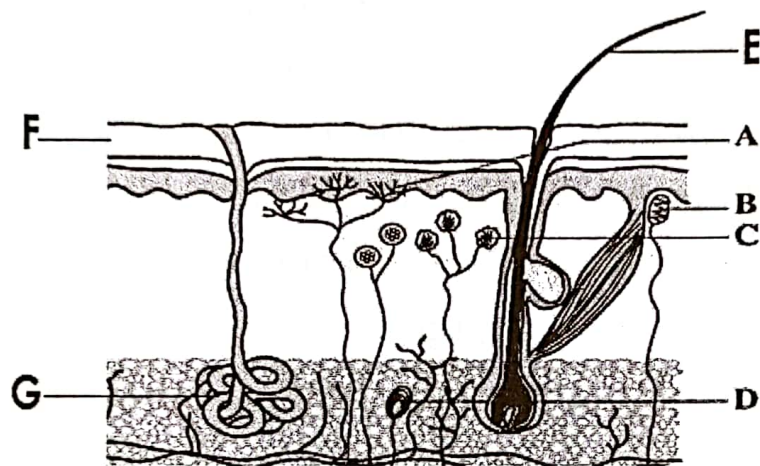
(b) How do farmers contribute to the loss of soil fertility in the environment?

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(c) Name any **one** way farmers can keep their soil fertile.

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49. The diagram below represents the skin. Study it carefully and answer questions that follow.



(a) Name the parts marked:

**E**.....

**G**.....

(b) State any **one** function of the skin.

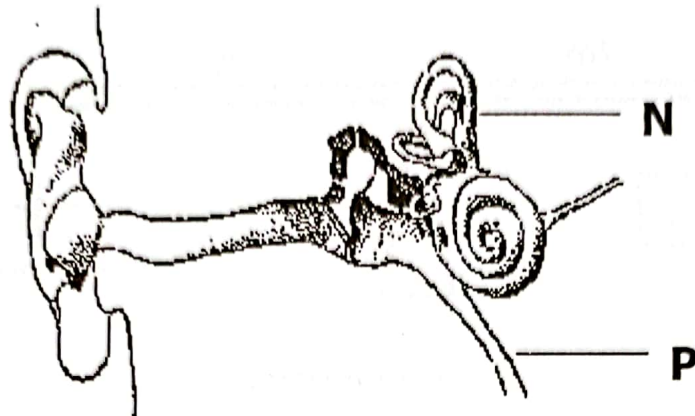
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(c) Mention any one disease that affects the skin.

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The answer below shows the mammalian ear. Study it carefully and use it to answer the questions that follow.



50(a) Name the parts with letters **P** and **N**.

(i) **P**.....

(ii) **N** .....

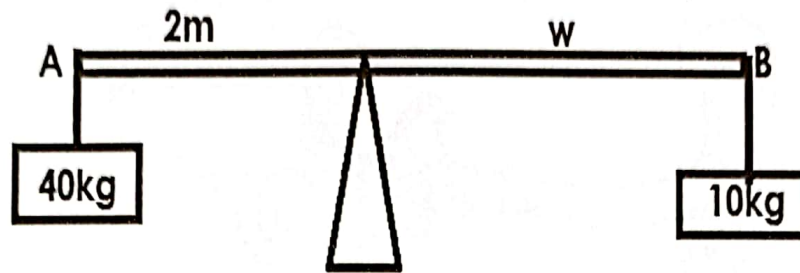
(b) Mary used a sharp object to clean her ears and had her eardrum pierced. How is that practice dangerous?

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.....

(c) The speed of sound in air is 330m per second. How far will the sound travel in one minute?

.....

51. The diagram below shows a rigid bar supporting forces at a pivot. Study it and answer questions that follow.



- (a) Find the distance marked w. (2 marks)

- (b) Name the class of levers to which the sea-saw belongs.

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- (c) Mention any other simple machine in the same class as a see-saw.

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- 52(a) In which way are the spiracles of an insect similar to the gills a tadpole?

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- (b) What happens to the diaphragm during breathing in?

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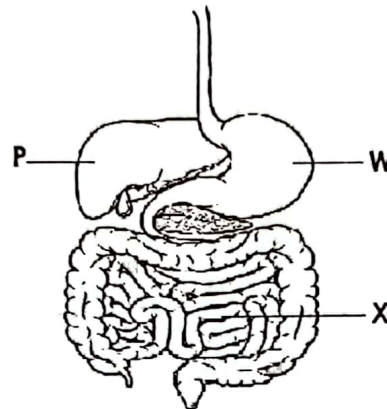
(c) Why is the trachea made up of rings of cartilage?

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.....

(d) Mention any **one** immunisable disease that affects the lungs of children.

.....

The diagram below shows part of the alimentary canal of man.  
Study it carefully and answer questions that follow.



53(a) Name parts marked with letters **P** and **X**.

**X** .....

**P** .....

(b) Name any **one** enzyme found in the juice produced in organ marked **W**.

.....

(c) Why is part labeled letter **P** very important in the process of digestion?

.....

.....

54(a) Give any **one** example of a wet land.

.....

(b) Mention any **one** animal that lives in wet lands.

.....

(c) Name any **one** animal that lives both in water and on land.

.....

.....

(d) State any **one** practice that can lead to protection of wetland resources.

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55(a) Write **ECOSAN** in full.

.....

.....

(b) State any **one** advantage of a VIP latrine over the conventional one?

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(c) Apart from smoking pit latrines, how else can a person maintain the cleanliness of such a latrine?

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(d) How far should a pit latrine be built from the water source?

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**END**