

# GREENHILL ACADEMY SCHOOLS

## PRE-PLE JOINT SET TWELVE 2023

### INTEGRATED SCIENCE

*Time Allowed: 2 Hours 15 Minutes*

**INDEX NO:**

<i>Random No.</i>						<i>Personal No.</i>		

**Candidates' Name:** .....

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

**Campus:** .....**Stream:**.....

**District Name:**.....

**Do not open this booklet until you are told to do so.**

**Read the following instructions carefully**

1. This paper consists of 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. Answers to both sections must be written in spaces provided.
5. All answers must be written in blue or black ballpoint pen or ink but not in pencil. All work done in pencil, except diagrams, will NOT be marked.
6. Crossing out of answers will lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.
8. Wrong spellings will lead to loss of marks.

<b>FOR EXAMINERS USE ONLY</b>		
<b>QN.NO.</b>	<b>MARK</b>	<b>SIGN</b>
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
<b>TOTAL</b>		

**SECTION A: (40 MARKS)**

1. Name any **one** mineral that is necessary for proper growth of bones.  

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2. How do fungi reproduce?  

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3. What type of change takes place if wood is burnt to ashes?  

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4. How do we call the turning point of a machine?  

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5. Why does a coin placed in water sink?  

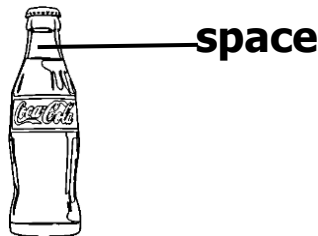
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6. Which gas is found in the largest quantity in the atmosphere?  

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7. Identify any **one** of injury that requires the application of cold water on the affected part?  

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8. Bakecura saw lightning from a distance. A few seconds later, he heard the sound of thunder. Why did he see lightning before hearing thunder?  

---

**The diagram below is a sealed soda bottle.**



9. What is the advantage of the space shown in the diagram?  

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10. Name a safety device which breaks the circuit in case of too much flow of the current.  

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11. Mention **one** body organ which is damaged when one drinks too much alcohol.  

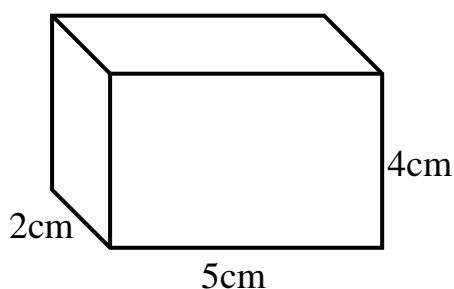
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12. What is refraction of light?  

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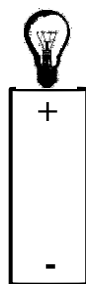
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13. Name any **one** component of blood.
- 
14. State any **one** importance of a woodlot to school.
- 
15. How is docking important in sheep rearing?
- 
16. State any **one** way of improving soil fertility.
- 
17. Joanna who sits 2 metres away from a fire place gets warmed by the heat from the fire. How does the heat from the fire reach Joanna?
- 
18. Name the enzyme found in the mouth that helps in the digestion of cooked starch.
- 
19. Identify the type of smoking where one inhales tobacco smoke directly from a burning cigarette.
- 
20. State **one** characteristic of images formed in a pinhole camera.
- 
21. What is the danger of taking drugs which are not prescribed by a medical worker?
- 
22. How are insulators important to electricity engineer?
- 
23. **The diagram below shows a chalk box. Find its volume.**



24. Solomon does not see properly when it is night time, which deficiency disease is he suffering from?
- 
25. What happens when industries release a lot of smoke in the atmosphere?
- 
26. Why is a skull an important part of the body?
- 
27. Mention **one** of the elements of **PHC**.
- 
28. State any **one** physical process that takes place during the rain cycle.
- 
29. What type of family has the following members; husband, wife, son and cousin?
- 
30. Which part of the ear is likely to be damaged if you clean your ear with a sharp pointed object?
- 
31. State any **one** reason why Ayebare should keep records on her poultry farm.
- 

32. **In the diagram below, use arrows to indicate the direction of flow of electric current.**

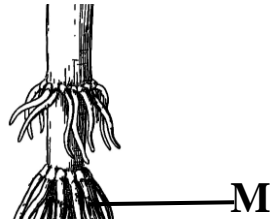


33. State **one** role of water during seed germination.
- 
34. Give **one** physical difference between a hen and a cock.
- 
35. State any **one** example of sexual deviation.
- 
36. Give any **one** way of demagnetizing a magnet.
-

37. Identify **one** example of the viral diseases in cattle.

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**The diagram below shows a part of a plant. Use it to answer questions 38, 39 and 40.**



38. Name the roots marked **M**.
- 
39. Give any **one** example of a plant with such roots in (a) above.
- 
40. How is respiration an important process to animals?
- 

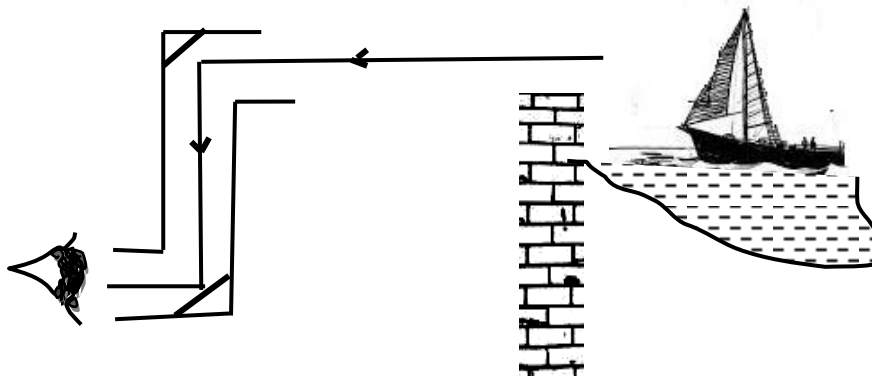
### **SECTION B:**

41. **The table below shows types of electricity and their sources. Complete the gaps by filling the missing parts.**

(i)	Hydro-electricity	.....
(ii)	.....	Fossil fuels
(iii)	Geothermal electricity	.....
(iv)	.....	The sun

42. (a) What are non-flowering plants?
- 
- 
- (b) Give **two** examples of plants which reproduce by means of spores apart from mosses, liverworts and ferns.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (c) Why are mushrooms not able to make their own food?
-

**43. The diagram below shows an instrument used by sailors.**



(a) Name the instrument shown above.

\_\_\_\_\_

(b) How is the instrument above useful to people?

\_\_\_\_\_

\_\_\_\_\_

(c) Name **two** types of reflection as used in light energy.

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

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

44. (a) Name the state of change that takes place when a solid turns into a liquid.

\_\_\_\_\_

(b) What force holds molecules of the same kind together?

\_\_\_\_\_

(c) State **one** difference between a gas and a liquid.

\_\_\_\_\_

(d) What happens to the volume of water when it freezes?

\_\_\_\_\_

45.(a) Define the term immunity

\_\_\_\_\_

\_\_\_\_\_

(b) Identify **one** way the body acquires immunity naturally.

\_\_\_\_\_

(c) Name the childhood immunisable disease that causes lameness.

\_\_\_\_\_

46. (a) State **one** way of protecting school buildings from being struck by lightning.

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(b) How is lightning important to the soil?

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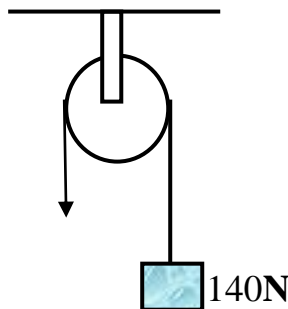
(c) Name any **one** form of energy of lightning in the environment.

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(d) State any **one** danger of lightning in the environment.

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47. **Study the illustration of the pulley system and use it to answer the questions about it.**



(a) Name the type of pulley system above.

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(b) Which component of air is the above machine used for in a school.

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(c) Use letter **E** to show the effort on the machine above.

(d) What is the effort required to raise the load of 140N as shown above?

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48. (a) What virus causes **AIDS**?

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(b) What type of blood cells are attacked by the virus that causes AIDS?

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(c) State any **one** traditional practice that may lead to transmission of **AIDS**.

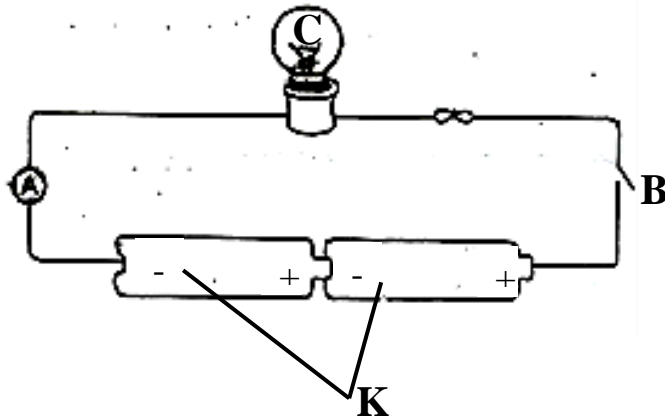
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49. Breastfeeding is highly recommended because mother's milk contains almost all food values.
- (a) Name any two food values found in breast milk.
- \_\_\_\_\_
- (b) Which food value is missing in breast milk?
- \_\_\_\_\_
- (c) State any **one** disadvantage of bottle feeding.
- \_\_\_\_\_
50. (a) Why should a hole of a pit latrine be covered when not in use?
- \_\_\_\_\_
- (b) Why should a pit latrine be built at least 30m away from a water source?
- \_\_\_\_\_
- (c) State any **one** way of keeping the pit latrine clean.
- \_\_\_\_\_
- (d) Identify **one** disease that may break out at school as a result of poor disposal of faeces.
- \_\_\_\_\_
51. (a) Mention **two** non-living components of the environment.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (b) State **one** non-living thing on which plants depend.
- \_\_\_\_\_
- (c) What is the growing of crops and trees together called?
- \_\_\_\_\_
52. (a) Identify the set of teeth that develops first in the mouth of a two-year baby.
- \_\_\_\_\_
- (b) Name **two** ways of caring for the teeth.
- (i) \_\_\_\_\_
- (ii) \_\_\_\_\_
- (c) Identify **one** disease that affects the teeth.
- \_\_\_\_\_



53. Study the diagram and answer the questions that follow



(a) Name the part marked **B**.

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(b) State the forms of energy produced by part marked **C**.

---

(c) Draw a symbol representing part **K** as shown in the diagram above.



54. (a) State any **one** quality of essential drugs.

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(b) State **one** reason why essential drugs should be properly prescribed.

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(c) Give any **two** examples of essential drugs.

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

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

55. **Study the illustrations of lenses and use them to answer the questions about them.**



- (a) Identify the lens marked with **D** and **E**.

(i) **D** \_\_\_\_\_

(ii) **E** \_\_\_\_\_

- (b) Give **two** examples of optical instruments.

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

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

\*\*\*\*\**END*\*\*\*\*\*

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