



HILLSIDE PRIMARY SCHOOL
MID TERM TWO 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

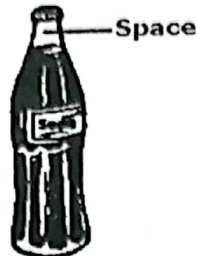
1. The paper has **two** sections: **A** and **B**.
Section A has 40 questions and Section B has 15 questions
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. **All** answers must be written using a blue or black ball-point pen or fountain 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. Name any **one** mineral that is necessary for the proper growth of bones?
.....
2. How do most fungi reproduce?
.....
3. What type change takes place if wood is burnt to ashes?
.....
4. How do call the turning point of a machine?
.....
5. Why does a coin placed in water sink?
.....
.....
6. Which gas is found in the largest quantity in the atmosphere?
.....
7. Identify any **one** type of injury that requires the application of cold water on the affected part?
.....
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?
.....
.....

9. The diagram below is of a sealed soda bottle. What is the advantage of the space shown in the diagram?



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

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

12. What is refraction of light?

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?

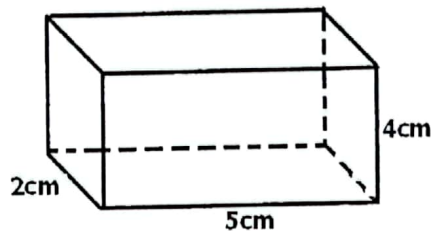
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22. How are insulators important to electricity engineer?

.....

.....

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.

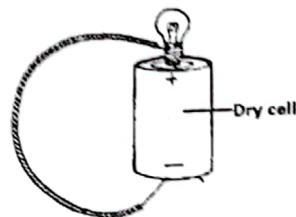
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29. What type of family has the following members: husband, wife, son and cousin?
.....

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 the 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 a sexual deviation.

.....

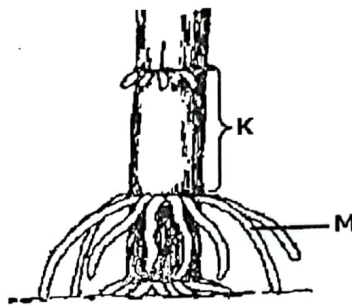
36. Give any **one** way of demagnetizing a magnet.

.....

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

.....

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



37. Name the roots marked **M**.

.....

38. 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?

.....
.....

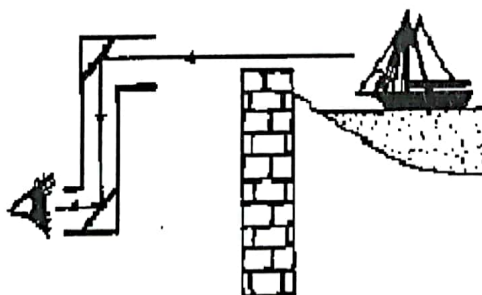
(b) Give **two** examples of plants which reproduce by means of spores apart from mosses, liverworts and ferns.

- (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 change of state 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. Define the term immunity.

.....
.....

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

.....

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

.....

(d) Identify one vaccine that is administered to the child by injection.

.....

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

.....
.....

(b) How is lightning important to the soil?

.....
.....

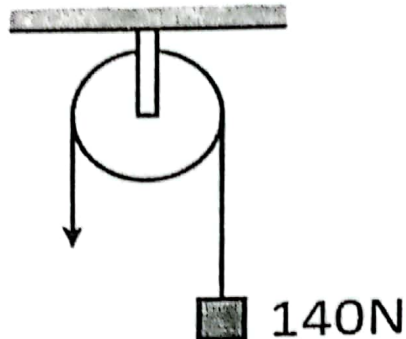
(c) Name any one form of energy produced by lightning.

.....

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

.....
.....

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



- (a) Name the type of pulley system above.

.....

- (b) Which important activity is the above machine used for in a school?

.....

.....

- (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?

.....

48. (a) What virus causes AIDS?

.....

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

.....

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

.....
.....

(d) What is the best way an adolescent girl can protect herself against contraction of the virus that causes AIDS?

.....
.....

49. Breastfeeding is highly recommended because mother's milk
Contains almost all food values.

(a) Name any **two** food values found in breast milk.

(i).....

(ii).....

(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.

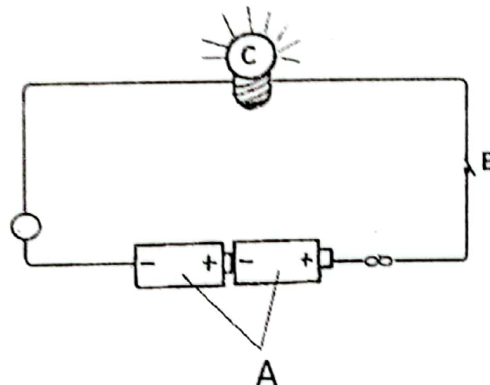
(i).....

(ii).....

(c) Identify **one** disease that affects the teeth.

.....

53. Study the diagram and answer the questions that follow.



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

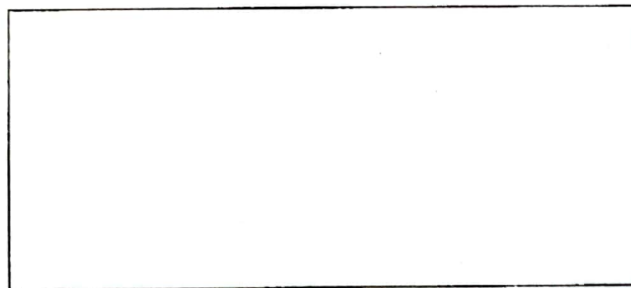
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(b) State the forms of energy produced by part marked **C**.

(i).....

(ii).....

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



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

.....
.....

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

.....
.....

(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.



D



E

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

(i)**D**.....

(ii)**E**.....

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

(i).....

(ii).....

END