



## HILLSIDE PRIMARY SCHOOL

EXAMINATIONS  
2023

**INTEGRATED SCIENCE ( SET SIX )**  
*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		

9. Why are people discouraged from keeping domestic animals inside the house at night?
- .....

.....
10. Name the water borne-disease that is characterized by blood stained diarrhoea in man.
- .....

.....
11. Give one example of an involuntary action in the body.
- .....

.....
12. Identify the property of magnetism enables a sailor to locate places.
- .....

.....
13. In the space below draw the eggs of a frog.
- .....

.....

.....
14. How do algae reproduce?
- .....

.....
15. Why is wood covered with soil in process of producing charcoal?
- .....

.....
16. What happens on the surface of the bottle removed from a fridge and left in an open place?
- .....

.....

The diagram below shows a kind of root system. Use it to answer questions 17 and 18.



17. What kind of germination results into the above kind root system?  
.....  
.....
18. Mention one example of a plant with the above kind of root system.  
.....  
.....
19. Give one disadvantage of using a wet cell as a source of electricity.  
.....  
.....
20. Why are we discouraged from using cold water when administering first aid to a person with fever?  
.....  
.....
21. Why are we encourage to eat foods rich in vitamin A?  
.....  
.....
22. How are plants different from fungi in terms of feeding?  
.....  
.....

31. State one similarity between an echidna and a duck.

.....  
.....

32. How are red blood cells important in respiration?

.....  
.....

33. Arrange the following processes according to their order of occurrence.  
Ovulation, copulation, implantation, fertilization.

.....  
.....

34. Besides the shape, give any other structural difference between a red blood cell and a white blood cell.

.....  
.....

35. Which body organ enables us to detect changes in temperature?

.....  
.....

36. How do trees help to conserve air?

.....  
.....

37. Which component of soil is formed by decomposition of organic matter?

.....  
.....

38. Why is it not advisable to cover the hole of a ventilated improved pit latrine?

.....  
.....

39. Which gas is necessary for seed germination?

.....  
.....



23. Name the class of birds with such a beak shown below.



24. How can the government protect endangered species of animals?

25. Why is claysoil considered the best for pottery?

26. Mention the main product obtained from Dorset sheep.

27. Give one cause of deformity of bones in human beings.

28. Mention one factor that can lead to seed dormancy.

29. How are aeroplanes protected from effects of friction in air?

30. Name the organ that enables cetaceans to maintain constant body temperature.

31. State one similarity between an echidna and a duck.
- .....
- .....
32. How are red blood cells important in respiration?
- .....
- .....
33. Arrange the following processes according to their order of occurrence.  
Ovulation, copulation, implantation, fertilization.
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- .....
- .....
39. Which gas is necessary for seed germination?
- .....
- .....

40. State the importance of ear tag applicator on a cattle farm.

.....

.....

### SECTION B

41. a) Give one importance of saliva in the process of digestion.

.....

.....

b) Where in the digestive system does absorption of mineral salts occur?

.....

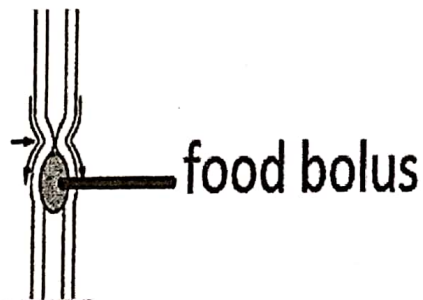
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c) Why does salivary amylase become inactive in the stomach?

.....

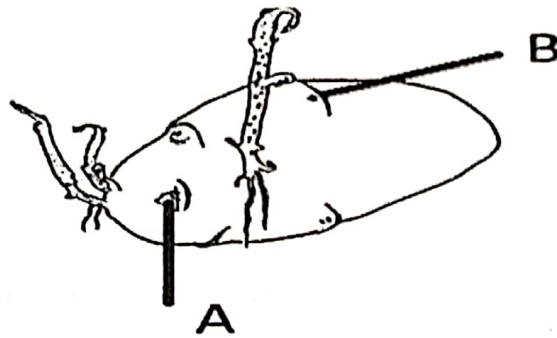
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d) Identify the process illustrated below.



.....

42. The diagram below shows an underground stem. Use it to answer questions that follow.



- a) Name food value obtained from the above stem.

.....  
.....

- b) To which group of underground stems does the above belong?

.....  
.....

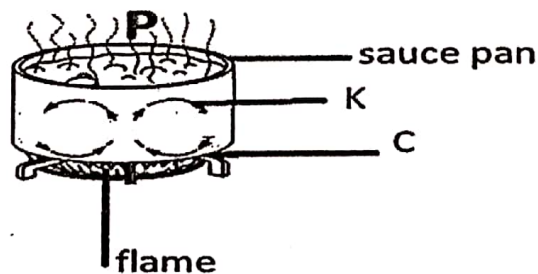
- c) How is part A useful?

.....  
.....

- d) Give one way of caring for the above plant.

.....  
.....

43. Below is an experiment carried out by primary five pupils about boiling water.





a) Which method of heat transfer takes place at K?

.....  
.....

b) Mention the physical process represented by P.

.....  
.....

c) In which state matter does heat travel by conduction?

.....  
.....

d) What type of energy is possessed by boiling water?

.....  
.....

44. a) How is a predator different from a scavenger?

.....  
.....

b) Give one example of each of the following.

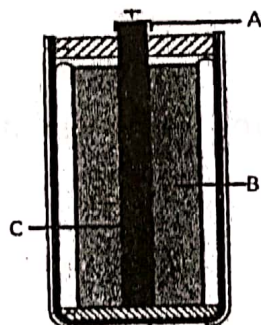
(i) Scavenger mammal.....

(ii) Scavenger bird.....

c) What is meant by the term "prey" in terms of feeding?

.....  
.....

45. Study the electric cell below and answer questions that follow.



a) Name part labeled B

.....

.....

b) Why is a dry cell regarded as a primary cell?

.....

.....

(c) What form of energy is stored in a dry cell?

.....

.....

46. a) What is family planning?

.....

.....

b) Mention two permanent methods of a family planning.

i).....

ii).....

c) Identify one basic requirements of a pregnant.

.....

.....

47. (a)What term is used to refer to the destruction of vegetation?

.....

.....

(b)Mention two ways how vegetation destroyed.

i).....

ii).....

(c)State the dangerous effect of destroying vegetation.

.....

.....

48. a) Apart from sweating, give any other way the skin regulates body temperature.

.....  
.....

b) Mention one excretory product removed from the body by skin.

.....  
.....

c) How are sweat glands important in the human body?

.....  
.....

d) Why does one urinate frequently on a cold weather day?

.....  
.....

49. (a) Name the fuel obtained by fermenting animal excreta.

.....  
.....

(b) Identify the bacteria involved in the production of the above fuel.

.....  
.....

(c) How is the use of the above fuel environmentally friendly?

.....  
.....

(d) What name is given to the materials used to produce the above fuel?

.....  
.....

**50. Mention one example of each of the following crops.**

a) stem tuber

.....

b) root tuber

.....

c) vegetable fruit

.....

d) leafy vegetable

.....

**51. Below is a list of human activities carried out by man in the environment.**

- Mining
- Mono-cropping
- Release of smoke from factories
- Planting trees.
- Draining swamps
- Treating industrial gases

(a) Which activity is likely to cause soil infertility?

.....

.....

(b) Identify the activity from the above list that causes global warming

.....

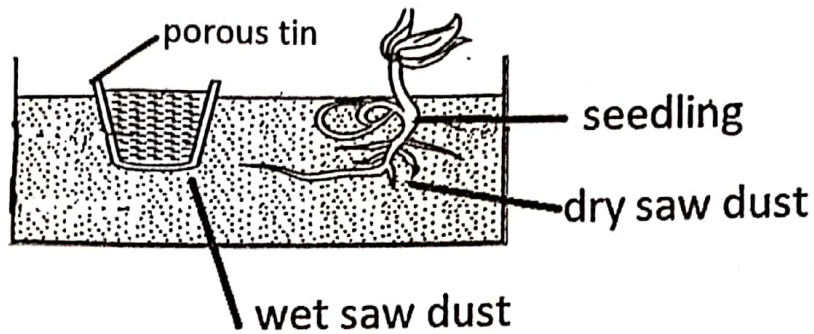
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(c) From the above list, identify two conservation practices.

(i).....

(ii).....

52. Below is an illustration of a plant response to stimulus



a) Identify the plant response shown above.

.....

.....

b) How is the above response important to plants?

.....

.....

c) Identify the stimulus in the above diagram.

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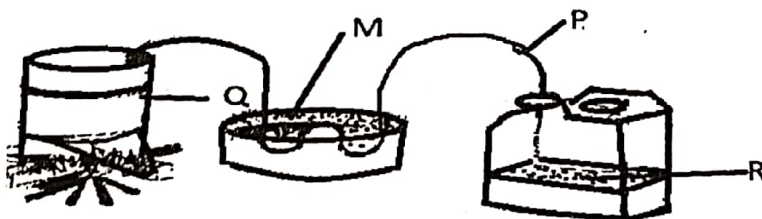
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d) Besides the above, name any other plant response to stimulus.

.....

.....

53. The diagram below shows one of the methods of cleaning water. Study it and answer questions 53.





a) Name the method of cleaning water shown above.

.....  
.....

b) Identify the physical process taking place at M.

.....  
.....

c) Why is the part of P that is in water coiled?

.....  
.....

c) Why is liquid R not recommended for drinking?

.....  
.....

**54. Match the disease in List A to their signs and symptoms in list B**

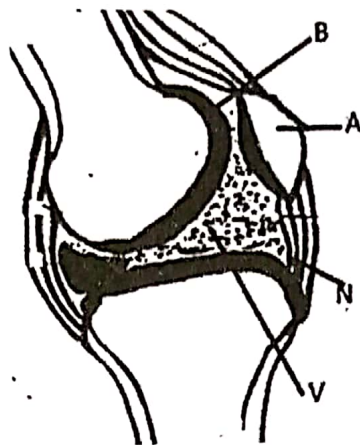
**List A**

**List B**

- |                                 |  |
|---------------------------------|--|
| (i) Foot and mouth disease      | blood stained dung                       |
| (ii) Brucellosis                | blisters on hooves and muzzle            |
| (iii) Anthrax                   | placenta remains in the womb after birth |
| (iv) Red water                  | Reddish urine due to liver damage        |
| Swelling of the udder and teats |  |

- i) Foot and mouth disease .....
- (ii) Brucellosis .....
- (iii) Anthrax .....
- (iv) RedWater .....

55. The diagram below shows a movable joint. Use it answer to answer questions



(a) give the function of parts labeled N and v

(i) N.....

(ii) V.....

(b) How is the fluid labeled B useful in a joint?

.....  
 .....

(c) Mention one disease that affects muscles and bones.

.....  
 .....

Ends