



HILLSIDE PRIMARY SCHOOL
PRE MOCK EXAMINATIONS

2024

INTEGRATED SCIENCE (SET ONE)

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. Mention any one disease of goats caused by a virus.

.....

2. Where does gaseous exchange take place in the lungs?

.....

3. State any one reason why a penguin is not able to fly.

.....

.....

4. How is the vent pipe important on a VIP latrine?

.....

.....

5. Name the type of tooth below.



.....

6. Give the function of the above type of tooth.

.....

.....

7. Give any one reason for administering first aid to a near drowned victim.

.....

.....

8. State the importance of umbilical cord to a foetus.

.....

.....

9. Besides hearing, State any other function of the ear.

.....

.....

Study the diagram below answer questions below.



10. How are the above seeds dispersed?

.....

.....

11. Give any one example of seeds dispersed by the above method.

.....

12. Kenneth was examined and found to be having lung cancer, what bad social habit could have resulted into this condition?

.....

13. Of what importance is a lateral line to a fish?

.....

.....

14. How is a duck adapted to swim in water?

.....

.....

15. Why do earth worms come out of the soil when it has rained?

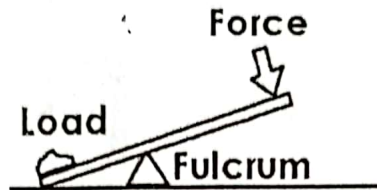
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16. Give one economic value of alcohol.

.....
.....

Below is a simple machine. Study and use it to answer questions 17 and 18.



17. Name the type of simple machine shown above.

.....

18. To which class of levers does it belong?

.....

19. Mention any **one** adaptation of the air sacs to their function.

.....
.....

20. Why do farmers carry out hardening off before transplanting?

.....
.....

21. Identify one body organ that forms the immune system.

.....

22. **5R's** is one way of controlling wastes in the environment. Name any one of the **R's**.

.....

23. If a stone with a mass 25g displaced 5cm^3 of water, what was its density?

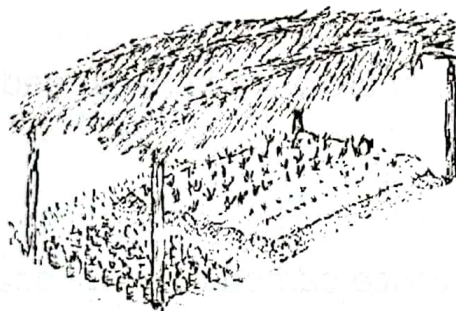
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24. Suggest any **one** advantage of putting oil on bicycle chains.

.....

.....

The diagram below shows a nursery bed. Use it to answer question 25.



25. Identify any one activity carried out in a nursery bed to make seedlings adapt to the garden conditions.

.....

.....

26. Give **one** function of blood plasma in the body.

.....

.....

27. State any one way strong heating of magnets causes demagnetization.

.....
.....

28. Identify any one substance that undergoes sublimation.

.....
.....

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

.....
.....

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

.....
.....

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

.....
.....

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

.....
.....

33. What is cuniculture as used in agriculture?

.....
.....

34. How are cetaceans able to live in cold environment?

.....
.....

35. State one way how carbon dioxide stops fire from burning.

.....
.....

36. Why is the filament in an electric bulb coiled?

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.....

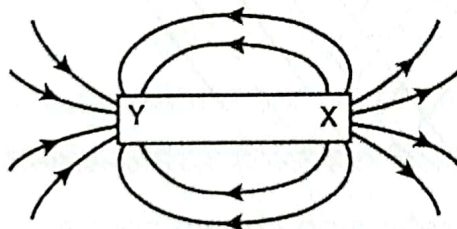
37. Mention any one method of harvesting trees.

.....
.....

38. State the function of the ossicles in the human body.

.....
.....

39. Identify the pole marked with letter X in the diagram below.



.....
.....

40. State the reason why the vacuum of a thermos flask controls heat loss or gain by conduction and convection.

.....
.....

SECTION B (60 Marks)

41. a) State two examples of amphibians in the environment.

(i).....

(ii).....

b) What type of fertilization do amphibians undergo?

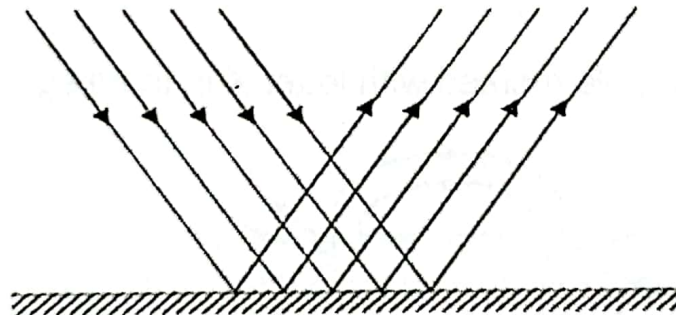
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c) State one similarity between amphibians and reptiles.

.....

.....

42. Use the diagram of reflection below, to answer the questions that follow.



(a) Name the type of reflection shown above.

.....

.....

(b) How is reflection of light important in our daily life?

.....

.....

(c) State any one law of reflection of light.

.....
.....

(d) Identify the kind of mirrors used in the above reflection.

.....

43. a) Identify the method used to separate the following mixtures

(i) water and salt

.....

(ii) Sugar with iron filings

.....

(iii) water and sand

.....

b) Apart from temperature and size, give one other factor which affects the solubility of a substance

.....

.....

44. a) How are the following plants propagated?

i) Cassava

.....

ii) Carrots

.....

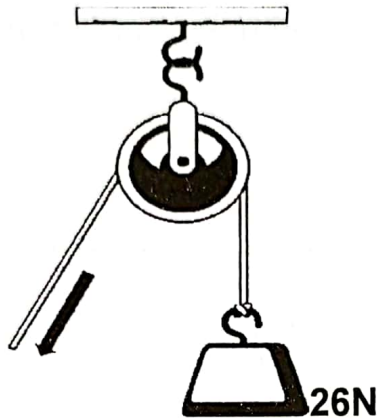
b) State one advantage of vegetative propagation.

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.....

c) Mention **one** method under vegetative propagation.

.....

45. The diagram below show one of the simple machines.



a) Name the pulley system above.

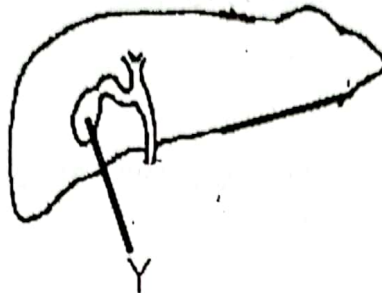
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b) Calculate the mechanical advantage of the above pulley system. (2 marks)

c) Give any **one** application of the above pulley system at school.

.....
.....

46. The diagram below shows a human body organ. Use it to answer questions that follow.



a) Name the substance stored in part Y.

.....

b) Give any **one** function of the above organ.

.....

c) How is the substance stored in Y useful?

.....

d) Which social habit can lead to the damage of the above organ?

.....

- 47.. (a) What is pitch as used in sound?

.....

.....

(b) Mention **two** factors that determine pitch of a musical instrument.

(i).....

(ii).....

(c) Mention **one** way of storing sound?

.....

48. a) Give any **one** stage of a food path.

.....

(b) Give **two** examples of blocks in a food path.

(i).....

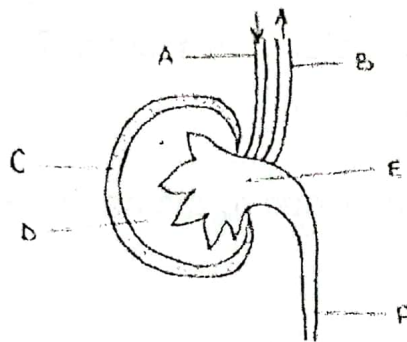
(ii).....

(c) What advice can you give to a farmer to overcome any of the blocks mentioned above?

.....

.....

49. The diagram below shows a cross section through a kidney.
Use it to answer the questions that follow.



(a) Name the parts marked **A** and **B**.

(i) **A**.....

(ii) **B**.....

(b) Identify the process that takes place in part marked **C**.

.....

(c) Write down **one** disease that affects the above organ.

.....

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

(i)

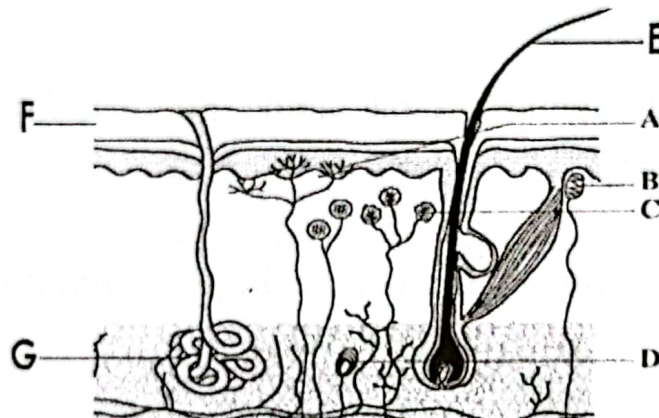
(ii)

(b) Write down **two** diseases that arise from poor water supply.

(i).....

(ii).....

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



(a) Name the parts marked E and G.

(i)E.....

(ii)G.....

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

.....
.....

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

.....

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

.....

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

.....

.....

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

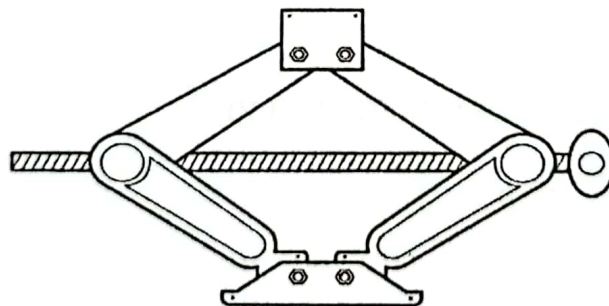
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(d) How far should a pit latrine be built from the water source?

.....

53. The diagram below shows a simple machine, use it to answer the questions that follow.



a) Name the type of simple machine shown above.

.....

b) Identify any group of people that use the above machine.

.....

(c) State any two ways how machines simplify work.

(i).....

(ii).....

54. a) Give one water-borne disease that can be immunized in infants.

.....

b) Identify any two common causes of sickness at home.

(i).....

(ii).....

c).How can we prevent diseases without using drugs?

.....

55. Match the processes of change of state of matter to their meanings.

Sublimation change from a liquid to a solid

Freezing change from a gas to a solid

Deposition change from a liquid to a gas

Evaporation change from a solid to a gas

(i)Sublimation.....

(ii)Freezing.....

(iii)Deposition.....

(iv)Evaporation.....

END