



HILLSIDE PRIMARY SCHOOL
BEGINNING OF TERM TWO EXAMINATIONS

2024

INTEGRATED SCIENCE (NINE)

Time Allowed: 2 Hours 15 Minutes

Index No.

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Candidate's Name.....

Candidate's Signature.....

Stream.....

Read the following instructions carefully

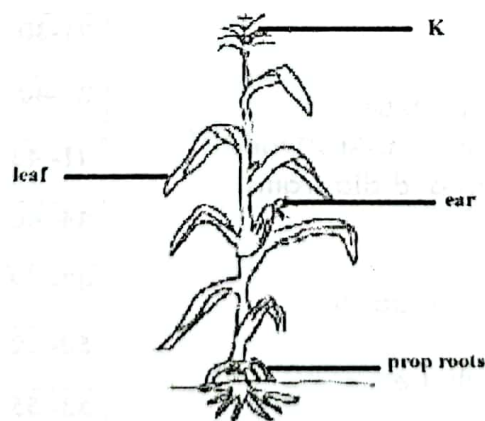
1. The paper has **two** sections: **A** and **B**.
Section A has 40 questions and Section B has 15 questions
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. **All** answers must be written using a blue or black ball-point pen or fountain 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. Name the component of the environment that makes its own food.
.....
2. Mention any one activity that children can get involved in to keep the environment clean.
.....
3. State any one danger of excessive weight loss to body health.
.....
4. Give any one way people installing electric cables can safeguard themselves from electric shock.
.....
5. State any one way the discovery of simple machines has made work simpler.
.....

The diagram below a maize plant. Study it carefully and answer questions 6 and 7.



6. Name the part marked K
.....

7. Apart from prop roots, mention any one other kind of roots that develop from the shoot system of a flowering plant.

.....

8. State any one way of giving information about reproductive health to adolescents.

.....

.....

9. Give a reason why carnivores like lions have well developed canine teeth.

.....

.....

10. State any one similarity between fungi and mammals in terms of feeding.

.....

.....

11. Give any one reason why aluminum metal is used to make body parts of aero planes.

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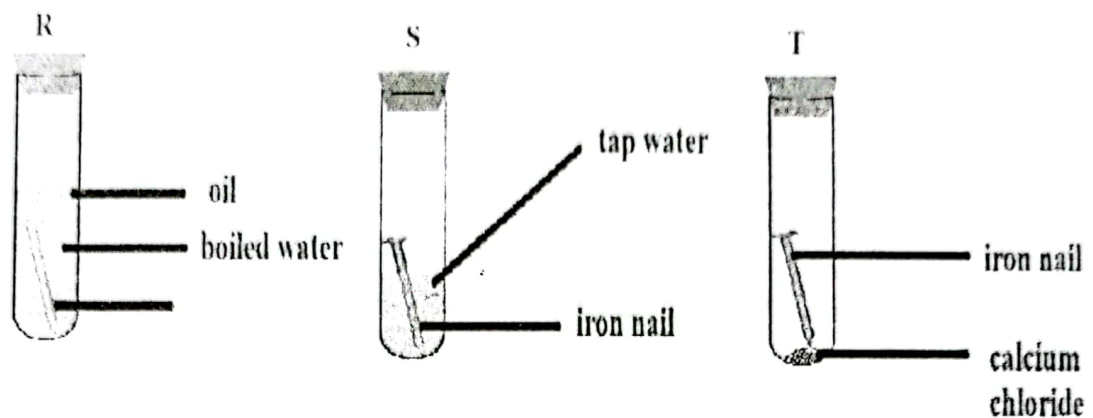
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12. Give any one reason why diseased domestic fowls should be culled.

.....

.....

The diagram below shows an experiment about rusting. Use it to answer questions 13 and 14.



13. Give a reason why iron nails in container S will result after three days.

.....

14. State any one importance of rusting to the soil.

.....

15. Name the group of a simple machine to which a ladder belongs.

.....

16. Give any one health habit that helps to strengthen the human skeleton.

.....

17. Name any one example of a limbless amphibian.

.....

18. Give any one way in which predicting future weather conditions is helpful to crop farmers.

.....
.....

19. State any one difference between the knee joint and hip joint in terms of movement.

.....
.....

20. Give any one factor that may force a mother to bottle feed her baby.

.....
.....

21. State any one reason why liquids and gases are regarded as fluids.

.....
.....

22. Write any one way adolescent boys and girls can safeguard themselves from drug dependency.

.....
.....

23. Give any one reason why blood from the heart goes to the lungs before being pumped to all body parts.

.....
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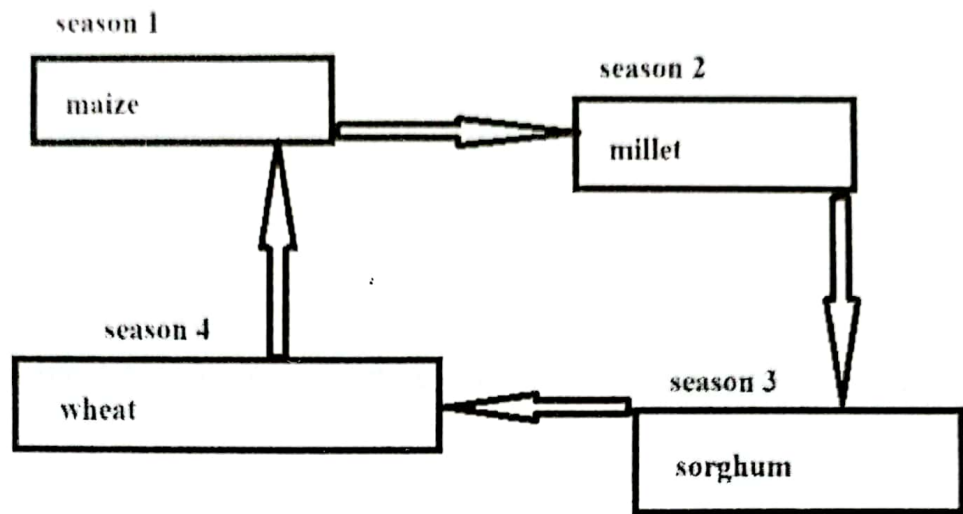
24. Mention any one source of materials used for making crafts in the environment.

.....

25. Give any one characteristic of mammals.

.....

The diagram below shows a crop growing practice. Study and use it to answer questions 26 and 27.



26. Identify the crop growing practice drawn above.

.....

27. State any one danger of the above practice to the soil.

.....

28. State any one reason why mercury is used as a thermometric liquid.

.....

29. Give the main reason why a victim of HIV/AIDS is easily attacked by other diseases.

.....

.....

30. State any one reason why roughages are essential component of one's diet.

.....

31. Give any one sign of tape worm infection in humans.

.....

32. Mention any one factor in the environment that can fail the germination of a viable seed.

.....
.....

33. State any one characteristic of birds that do not fly.

.....
.....

34. Give a reason why sound cannot be transmitted through a vacuum.

.....
.....

35. Mention any one form of reproduction in bacteria.

.....

36. State any one way of controlling the spread of red eyes among school children.

.....
.....

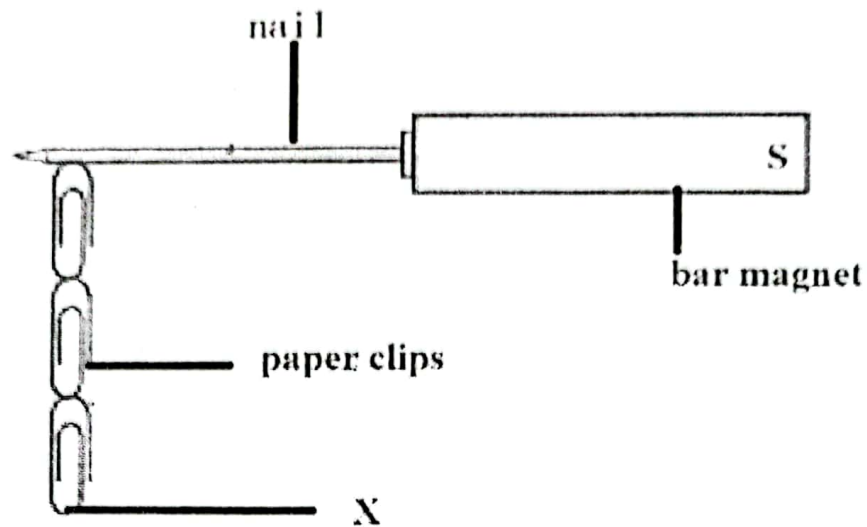
37. Give any one way of increasing the pitch of a wind musical instrument.

.....
.....

38. Give any one reason why the heart beats faster during physical exercise.

.....
.....

The diagram below shows a method of making a temporary magnet.



39. What will be the pole of the magnet marked x?

.....

40. State any one way of destroying the strength of a magnet.

.....

SECTION B

41. a) State any two characteristics of self-pollinated flowers.

i.

ii.

b) Give the importance of sepals of a flower before it opens up.

.....

.....

c) Apart from the bright colour of petals, mention any one way flowers attract pollinators.

.....

.....

42. a) Mention the chemical process involved in soil formation.

.....

b) Mention any two living components of soil.

i.

ii.

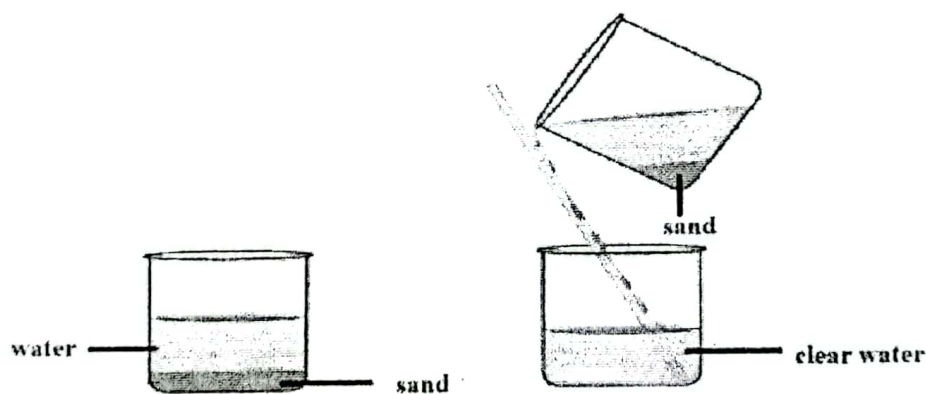
c) State any one harmful effect of polythene bags in the soil.

.....

.....

43. The diagram below illustrates a method of separating mixtures.

Study and use it answer the questions that follow.



a) Name the method of separating mixtures drawn above.

.....

b) Give any two examples of mixtures marked with letter P.

i.

ii.

c) Mention any one characteristic of good water for cleaning clothes.

.....

.....

44. a) Give any two factors that negatively affect the immunity of the human body.

i.

ii.

b) Apart from immunization. State any two ways the body acquires immunity.

i.

ii.

45. a) Mention any two examples of natural fibres.

i.

ii.

b) Give any two examples of materials made out of natural fibres.

i.

ii.

46. a) State any two ways cattle farmers can improve the quality of their products.

i.

ii.

b) Apart from milk and hides, mention any one other product got from cattle farming.

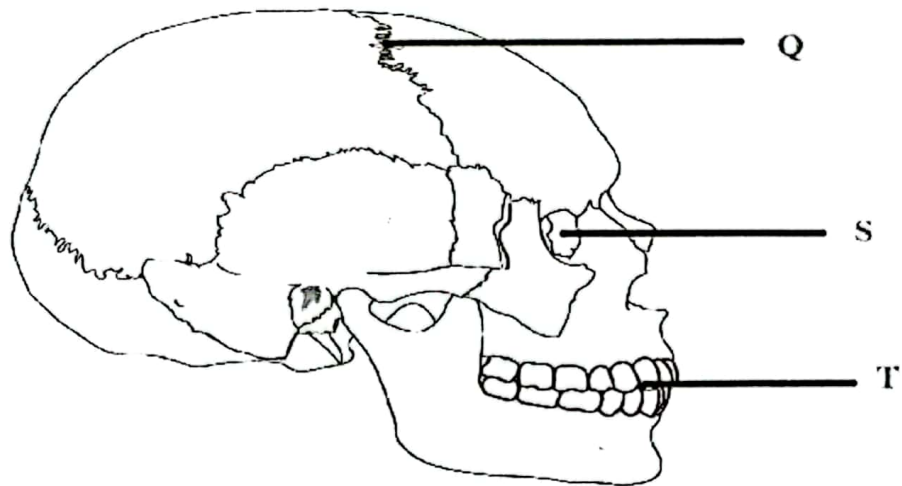
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c) State any one way of preventing diseases in cattle farms.

.....

.....

47. The diagram below represents joints of the skull. Study and answer the questions that follow.



a) Name the body organs protected by parts marked S.

.....

b) Give any one reason why joints of the skull do not produce movement.

.....

.....

c) How does wearing a helmet protect the head of a motorcyclist from injury in case of an accident?

.....

.....

d) Apart from protection, state any one function of the human skeleton.

.....

.....

48. The table below illustrates the composition of air we inhale and exhale. Study and answer questions that follow.

Type of air	Inhaled%	Exhaled%
Nitrogen	78	78
Oxygen	21	16
Carbon dioxide	0.03	4
Rare gases	0.97	0.97

a) Name the type of air that is mostly used up by the body.

.....

b) Give any one reason why we exhale more carbon dioxide than we inhale.

.....

.....

c) State the reason why the percentage of inhaled and exhaled nitrogen remained unchanged.

.....

.....

d) Give any one use of air in the body.

.....

.....

49. a) Name the fungus that helps in the formation of alcohol.

.....

b) Mention any two methods of making alcohol.

i.

ii.

c) State any one law in Uganda governing the possession of alcohol.

.....

.....

50. a) Give any one difference between a burn and a scald.

.....

.....

b) State the reason why people should be discouraged from putting soil or cow dung on a burn or scald.

.....

.....

c) State the importance of cold water in administering first aid to a burn or scald.

.....

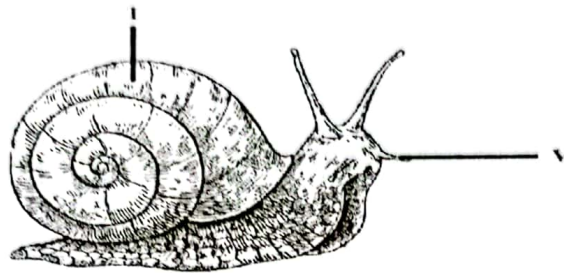
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d) Give a reason why a victim of severe burns and scalds should take a lot of fluids.

.....

.....

51. The diagram below represents a snail. Study and use it to answer questions that follow.



a) To what group of invertebrates does a snail belong?

.....

b) Name the part marked V.

.....

c) State the function of part marked T.

.....

d) Give any one danger of snail in the environment.

.....

52. a) State the permanent method of birth controls;

i) Males

.....

ii) Females

.....

b) Name the reproductive hormone responsible for secondary sex changes in;

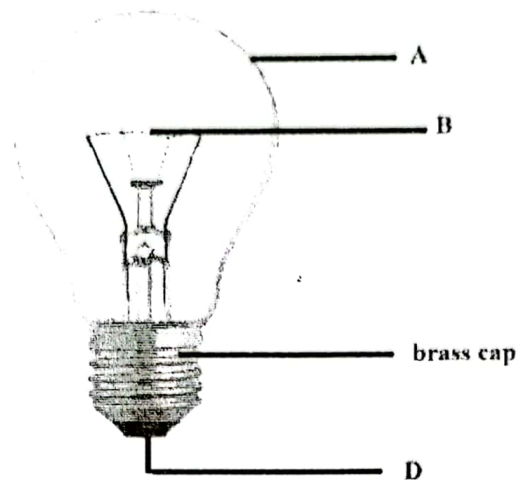
i) Males

.....

ii) Females

.....

53. The diagram below shows an electric bulb. Study it and answer questions that follow.



a) Name the part labeled A and D.

.....

b) Name the mineral used for making part B.

.....

c) Mention any one component of air used in electric bulbs.

.....

54. a) Give any enzymes found in the intestinal juice that digest carbohydrates to glucose.

i.

ii.

b) Mention any one danger of enzyme activity in the human digestive system.

.....

c) State any one way physical exercises promotes proper working of the digestive system.

.....

55. a) Give any two ways in which plants benefit from animals.

i.

ii.

b) State any two ways in which people can conserve plant life in the environment.

i.

ii.

END