



HILLSIDE PRIMARY SCHOOL

EXAMINATIONS

2023

INTEGRATED SCIENCE (SET THREE)

Time Allowed: 2 Hours 15 Minutes

Index No.

Random No.						Personal No.		

Candidate's Name.....Stream.....

Candidate's Signature.....

EMIS No.....

District Name.....

Read the following instructions carefully

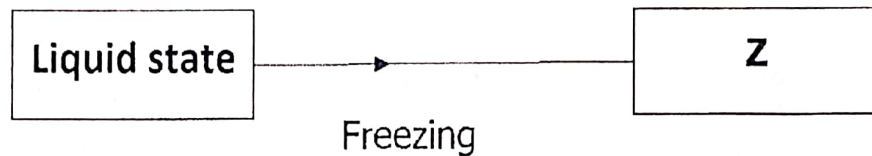
1. The paper has **two** sections: **A** and **B**.
Section A has 40 questions and Section B has 15 questions
2. Answer **all** questions. All answers to both sections **A** and **B** must be written in the spaces provided.
3. **All** answers must be written using a blue or black ball-point pen or fountain 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: 40 MARKS

1. Name the type of cloud that brings rain.
.....
2. State any **one** way of controlling the spread of cholera in an area.
.....
.....
3. Write **TBAs** in full as used in health.
.....
4. Name the component of blood affected by HIV.
.....
5. In which part of a maize grain is food stored?
.....

The diagram below shows a change in state of matter. Use it to answer the questions **6** and **7**.



6. What is the state of matter at **Z**?
.....
7. Name the process by which **Z** changes back to liquid.
.....
8. Which part of a cow is affected by mastitis disease?
.....

9. Why are we not able to see around corners?

.....
.....

10. How do bacteria reproduce?

.....

11. Give any **one** example of a renewable energy resource.

.....

12. Give a reason why a female anopheles mosquito does not spread HIV/AIDS.

.....
.....

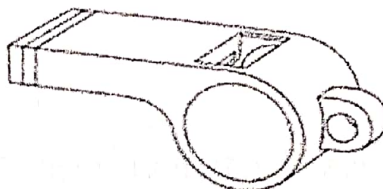
13. By what process does heat travel through gases?

.....

14. State any **one** characteristic of insects.

.....

The diagram below is of a musical instrument. Use it to answer questions **15** and **16**.



15. Name the group of musical instruments to which the instrument above belongs.

.....

16. How does the instrument above produce sound?

.....

17. What is demography?

.....

.....

18. State the method used to find the volume of an irregular object.

.....

19. Give any **one** role of a health club in a community.

.....

.....

20. State any **one** way of preventing diseases in goats.

.....

.....

21. Mention one way the skin cools down the human body temperature on a hot day?

.....

.....

22. State the best way an adolescent girl can avoid getting teenage pregnancy.

.....

.....

23. Give any **one** life skill that children need to develop in order to safe guard themselves against drug dependence.

.....

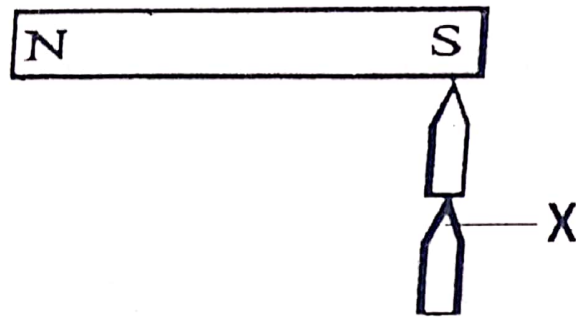
24. State any **one** way in which the spread of tapeworms can be prevented.

.....

.....

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

Study and use it to answer questions **25** and **26**.



25. Name the method shown above.

.....

26. What will be the pole at **X** after magnetization?

.....

27. How is proper personal hygiene important to an individual?

.....

.....

28. Name the type of lens used in a camera.

.....

29. Give any **one** disease that affects rabbits.

.....

30. Which type of current electricity is produced by the generator?

.....

31. Name the type of chicken kept for egg production.

.....

32. Give any **one** example of a carnivorous animal.

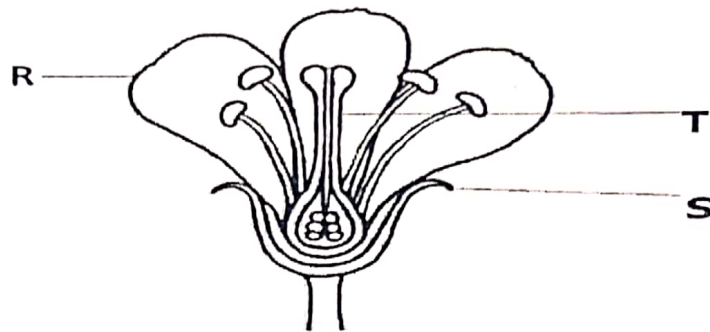
.....

33. How important is a health survey to the community?

.....

.....

The diagram below is of a flower. Use it to answer questions **34** and **35**.



34. Name the part labelled **S**.

.....

35. Give the function of the part labelled **R** to a flower.

.....

36. Name any **one** disease of the human respiratory system.

.....

37. Identify any **one** example of essential drugs.

.....

38. How is wind formed?

.....

.....

39. Give any **one** harmful material that can be found in soil apart from metal scraps.

.....
How can the mixture of millet flour and iron filings be separated?

SECTION B

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

.....

- (b) Name the form of energy produced by a dry cell when it is in use.

.....

- (c) Mention any two appliances which use dry cells at home.

(i)

(ii)

42. (a) State any two functions of the human skeleton.

(i)

(ii)

- (b) Name the part protected by the skull in the human body.

.....

- (c) Give any **one** health habit that helps to strengthen the human skeleton.

.....

43. (a) What is seed dispersal?

.....
.....

(b) Give any **two** agents of seed dispersal.

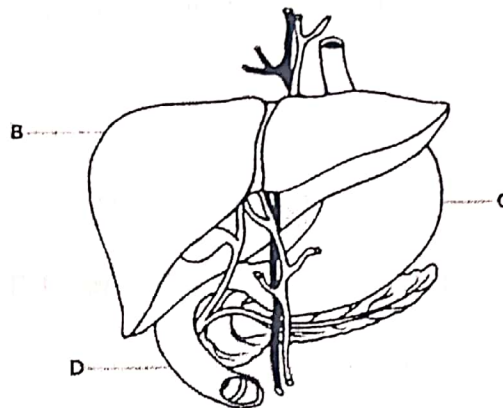
(i)

(ii)

(c) State any one advantage of seed dispersal.

.....
.....

44. The diagram below shows part of the digestive system. Study it and use it to answer the questions that follow.



(a) Name the part marked B

.....

(b) Name any one enzyme that acts on food in part D

.....

.....

(c) Write down any two diseases that affect the above system.

(i).....

(ii).....

45. (a) State any **two** effects of heat on matter.

(i).....
.....

(ii).....
.....

(b) In which state of matter does heat travel fastest?

.....
.....

(c) What happens to the mass of a piece of paper when it is burnt?

.....

46. State the function of each of the following body organs.

(a) Skin

.....
.....

(b) Heart

.....
.....

(c) Pancreas

.....
.....

(d) Kidney

.....

47. (a) Name the class of levers to which each of the following tools belongs,

(i) a see saw

.....

(ii) a spade

.....

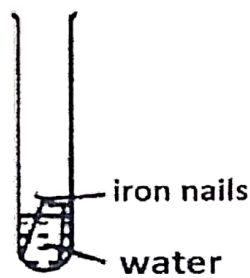
(b) Give any **two** ways in which friction is reduced in machines.

(i).....

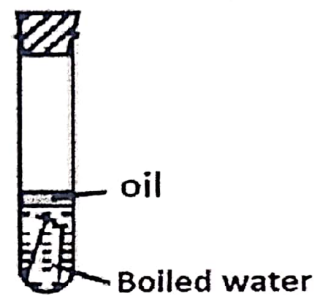
(ii).....

48. The diagram below shows an experiment about rusting. Use the diagram to answer the questions that follow.

tube P



tube Q



(e) In which of the tubes will the iron nails rust after some days?

.....

(f) Why is rusting called a chemical change?

.....

.....

- (g) Give **one** reason why oil was poured in container Q.

- (h) State any one effect of rusting on tools like pangas.

49. (a) Name the type of immunity acquired through;
- (i) Breast feeding

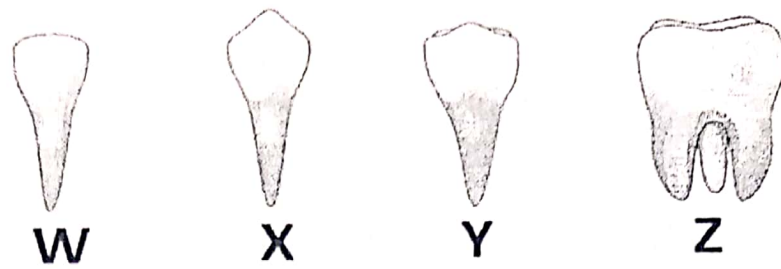
- (ii) Immunization

- (b) Give any **two** examples of vaccines administered to infants.
- (i).....
- (ii).....
50. (a) Identify the type of cattle that contributes to the development of;
- (i) Milk processing industry

- (ii) Meat processing industry

- (b) Write down any two diseases that affect cattle.
- (i).....
- (ii).....

45. The diagram below shows the types of teeth. Use it to answer the questions that follow.



- (a) Name the type of teeth marked Y.

.....
.....

- (b) State the function of the types of teeth labelled;

W:

X:

- (c) Identify any **one** disease of teeth.

.....
.....

46. (a) Give any **two** examples of seeds which are first planted in a nursery bed.

(i)

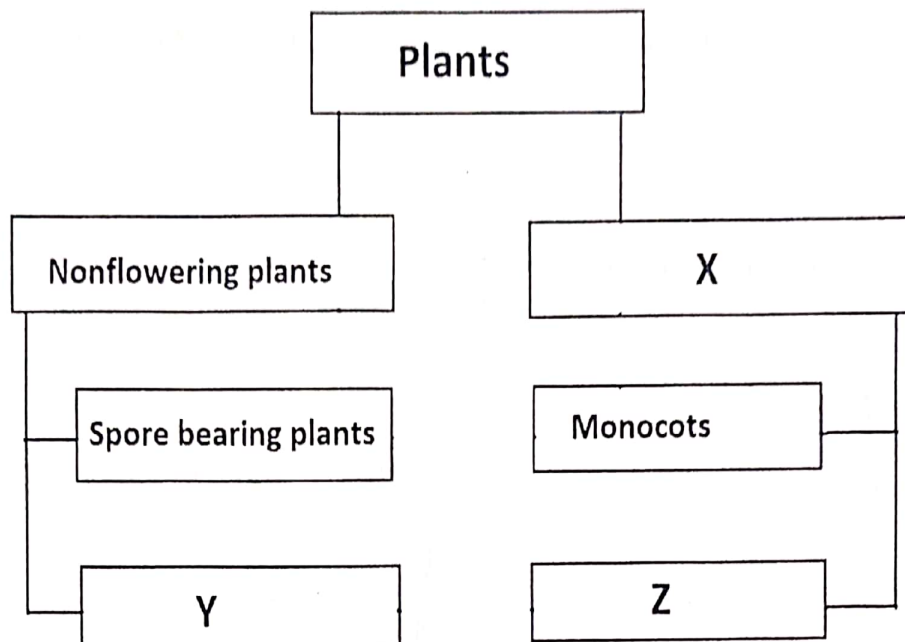
(ii)

- (b) State any **two** ways of caring for seeds in a nursery bed.

(i)

(ii)

53. The table below shows classes of plants. Study and use it to answer the questions that follow.



- (a) Name the class of plants represented by X.
-
- (b) Apart from having leaves with parallel venation, state one other characteristic of monocotyledonous plants.
-
-
- (c) Give any one example of the plants represented by letters Y and Z;
- (i) Y.....
- (ii) Z.....

54. (a) What do we call the diseases caused by lack of some food values in the body?

.....
.....

- (b) Give any **two** examples of the diseases mentioned above.

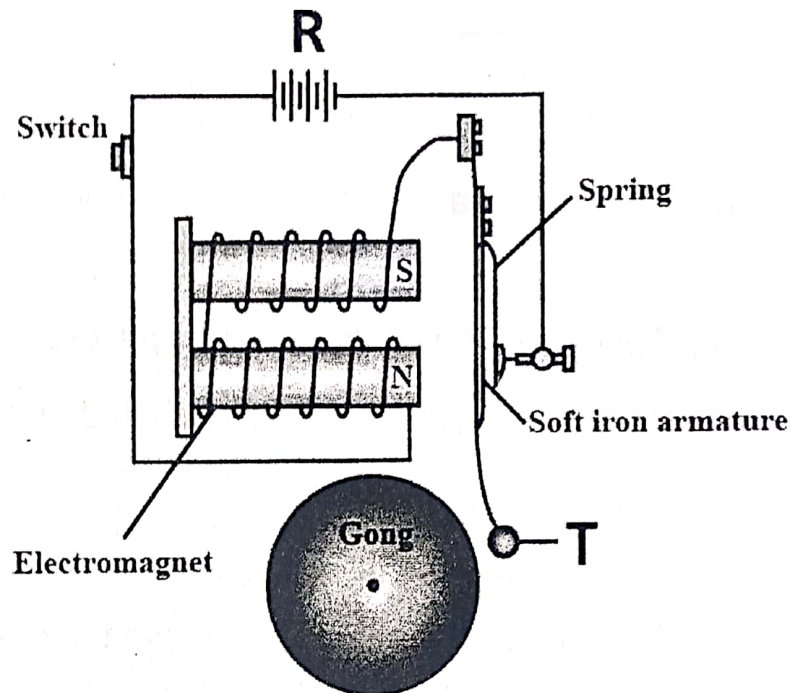
(i)

(ii)

- (c) Give any **one** example of food which gives us proteins.

.....

55. The diagram below shows an electric equipment. Study and use it to answer the questions that follow.



- (a) Name the equipment above.

.....
.....

(b)How is the equipment above important in a school?

.....
.....

(c)Name the part marked **T**

.....
.....

(d)State the function of part **R** when the equipment is working.

.....
.....

END