



SUREKEY EXAMINATIONS BOARD
PRE-PLE UNIQUE SERIES (TOKYO)

2024

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Random NO.						Personal No.		

Candidate's Name:

Candidate's Signature:

School Name:

Read the following instruction carefully:

1. Do not forget to write your school or district name anywhere on this paper.
2. This paper has two sections: A and B. Section A has 40 questions and section B has 15 questions. The paper has 16 printed pages altogether.
3. Answer all the questions. All answers to both sections A and B must be written in the spaces provided.
4. All answers must be written using a blue or black ball point pen or ink. Any work written in pencil will not be marked.
5. Unnecessary changes in your work and handwriting that cannot be read easily may lead to loss of marks.
6. Do not fill anything in the table indicated: "FOR EXAMINERS' USE ONLY" and boxes inside the question paper.

FOR EXAMINERS' USE ONLY		
QN.NO.	MARKS	EXR'S NO.
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

1. Name the intestinal worm that penetrates through the bare skin of the feet.

.....

2. State any **one** factor to consider when planning to start crop rotation.

.....

3. Apart from storing food, give **one** other function of the cotyledon in a ground nut seed.

.....

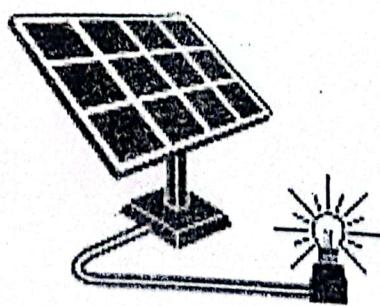
4. Write down any **one** piece of information found on prescribed drugs.

.....

5. Give the importance of mycelium to a mushroom.

.....

The diagram below shows a device used in the production of an energy resource in the environment. Use it to answer questions 6 and 7.



6. Name the energy resource produced using the device shown above.

.....

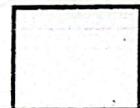
7. Why is the device above usually put on the top of roof of the building?

.....

8. Name any **one** class of food that is directly absorbed into the bloodstream of the human body.
-

9. Give any **one** reason why plants and animals cannot be grouped together as living things.
-

10. State any **one** way in which washing clothes is important to human health.
-



11. State any **one** characteristic of rib cages during breathing in humans.
-

12. State any **one** way in which the spread of communicable intestinal diseases can be minimized at school.
-

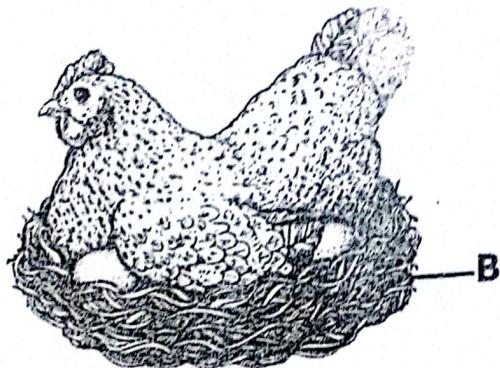
13. Give any **one** reason why mercury is used in a clinical thermometer.
-

14. Write down any **one** method of grazing cattle where pasture land is divided into portions.
-

15. Apart from blocking water drainage, mention any **one** other way in which plastic materials affect the soil.
-

16. Give any **one** way in which claws are useful to birds.
-

The diagram below shows a method of incubation in poultry. Use it to answer questions 17 and 18.



17. Give any **one** reason why you would not advise poultry farmers to use the method of incubation shown above.

.....

18. Why should the structure marked **B** be put in dark places?

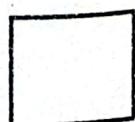
.....

19. State any **one** reason why pregnant women are encouraged to do regular physical exercises.

.....

20. Give any **one** feature used to identify the types of soil in the environment.

.....



21. In which way is the glass envelope of an electric bulb able to allow light to the surrounding?

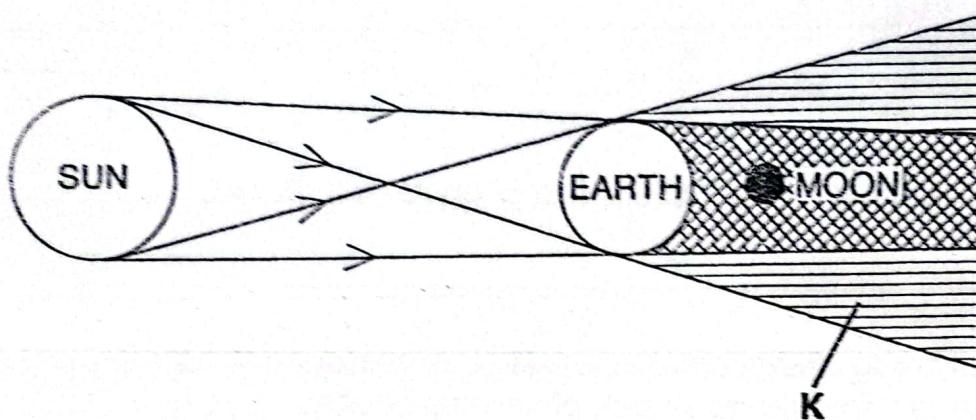
.....

22. Apart from eating the root tubers, mention any **one** other way in which pests destroy crops in the garden.

.....

23. State any **one** way in which the breeding of bedbugs can be prevented at home.
-

The diagram below shows a type of an eclipse. Use it to answer questions 24 and 25.



24. Identify the type of eclipse shown in the diagram above.
-

25. Name the shadow marked K on the eclipse shown above.
-

26. Apart from shedding leaves, state any **one** other way in which plants reduce the rate of water loss through leaves.
-

27. Name the group of simple machines that perform the same role as the incisor teeth in human beings.
-

28. Give any **one** activity carried out by the school health club.
-

29. State any **one** reason why you would advise a farmer to use a top bar hive when planning to start a bee keeping project.

.....

30. Give any **one** way in which the strength of an electromagnet can be increased.

.....



31. Give any **one** way in which the spider benefits from its web.

.....

32. Apart from being cheap, state any **one** other reason why most farmers in rural areas use free range system of keeping poultry.

.....

33. State any **one** way in which you can help a casualty who has got a fracture.

.....

34. State any **one** energy change that takes place in a complete electric circuit.

.....

35. Mention any **one** process that enables the human body to work.

.....

36. State any **one** reason why gap filling is important in crop growing.

.....

37. Name any **one** method that school children can use to put out petrol fire in case it breaks out at school.

.....

The diagram below shows the step taken when cleaning clothes at home. Use it to answer questions **38** and **39**.



38. Identify the step of cleaning clothes shown in the diagram above.
-

39. Give any **one** way in which the step shown is important in the cleaning of clothes at home.
-

40. Give any **one** sign of gonorrhoea in humans.
-

SECTION B: 60 MARKS

Questions **41** to **55** carry four marks each

41. (a) Name the digestive juice produced in the stomach.
-

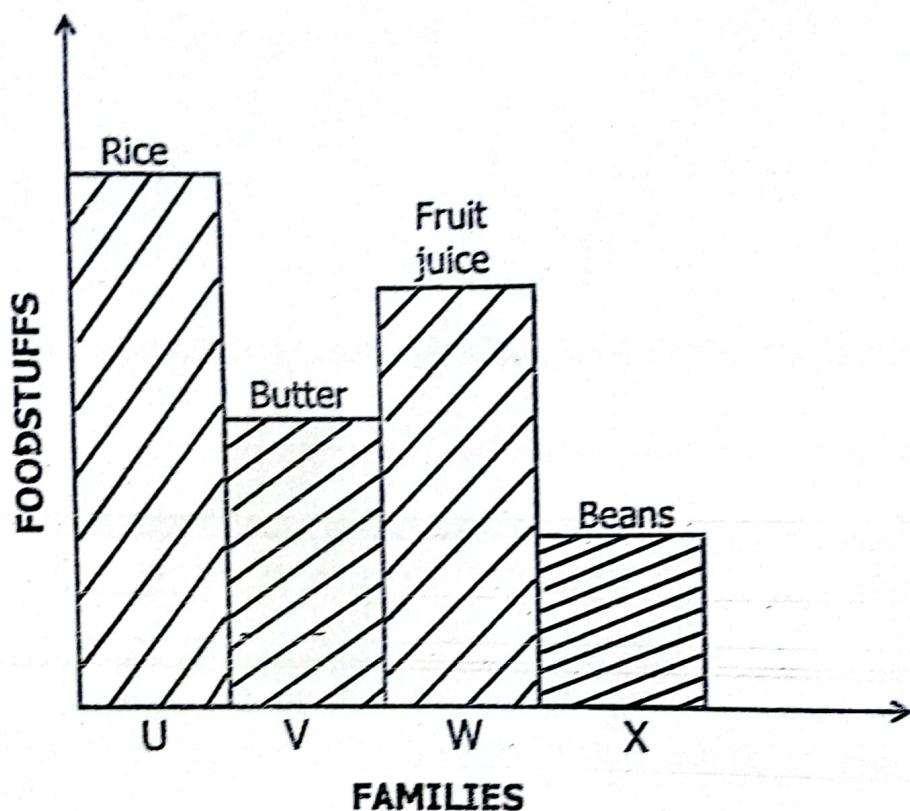
- (b) Apart from producing digestive juice, give any **two** other functions of the stomach during digestion.

(i)

(ii)

- (c) State any **one** way in which excessive drinking of alcohol affects the stomach.
-

42. The graph below shows different foodstuffs consumed by different families. Study and use it to answer the questions that follow.



- (a) Which class of food is most consumed by family U on the graph?

.....

- (b) Identify the health condition prevented in children as shown in family X on the graph.

.....

- (c) State any one way in which members in family W benefit from drinking fruit juice.

.....

- (d) Name any one foodstuff where the family V is most likely to use butter.

.....

43. (a) Write down any **two** activities that involve the use of yeast.

(i)

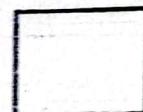
(ii)

(b) Name the chemical process that requires yeast to take place.

.....

(d) How is reproduction of yeast different from that of puffballs?

.....



44. (a) Give any **one** way in which you can tell that the rabbit is healthy.

.....

(b) Name the disease that affects the sense organs of hearing in rabbits.

.....

(c) State any **two** measures taken by farmers to safeguard their rabbits from contracting diseases.

(i)

(ii)

Turn Over

45. The document below shows the kind of information gathered during a health survey in Magere Village. The items found out in the village were; Malaria, chlorine, health centre which is located 5 km away and pit latrines. Study the information above carefully and fit in the spaces provided in the table below correctly.

Health Survey Report:

Name: **Ajjambo Chloe**

Village: **Magere**

Date: **25/05/2024**

Areas Surveyed:

1. The most types of latrine used in this village are
.....
2. Matoke and ground nut paste is the kind of food people commonly eat in Magere village.
3. is the common disease affecting children in this village.
4. The main source of drinking water in this village is well.
5. Most of the children in this village were immunized.
6. People use to treat water from wells to make it safe for drinking.
7. The population in the village is big compared to the available resources. This has affected the economic status of people due to lack of jobs.
8. The nearest health centre is locatedkilometres away from most of people's homes.

Thank you for your participation! Your input is invaluable in improving health outcomes in our community.

Checked by;

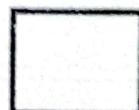
Nantongo Lillian

V.H.T Member

46. The list below shows objects with different densities. Study and use it to answer the questions that follow.

stone, boat, cassava tuber, ship, axe, leaf

- (a) Identify any **one** object from the list above that displaces water;
- (i) Equal to its weight
- (ii) Equal to its volume
- (b) A cassava tuber and a leaf on the list above were thrown from the same height. Which object reached the ground first?
.....
- (c) Why did the object above reach the ground first?
.....



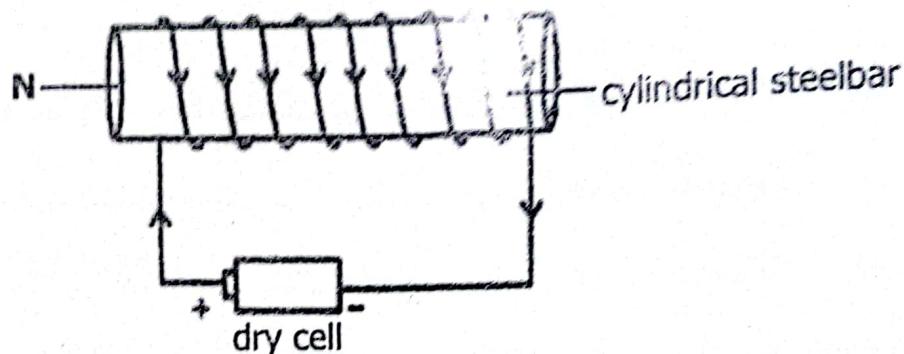
47. (a) Write down **two** types of vaccines given to babies once in their lifetime.

- (i)
- (ii)

- (b) State any **one** condition under which vaccines should be kept.
.....

- (c) Name **one** group of organisms used in the making of vaccines.
.....

48. The diagram below shows a method of making temporary magnets. Study and use it to answer the questions that follow.



- (a) Name the method of making temporary magnets shown in the diagram above.

.....

- (b) Identify the pole marked N.

.....

- (c) What happens to the cylindrical steelbar when the circuit is complete?

.....

- (d) Identify the temporary magnet formed by the cylindrical steelbar.

.....

49. (a) Give the role of the following components in a food chain.

(i) Plants:

(ii) Primary consumers:

- (b) Name the main source of energy for the producers in a food chain.

.....

- (c) State the difference between a prey and a predator in a food chain.

.....
.....

50. (a) Apart from melting of ice blocks, give any **one** other physical process that takes place in the presence of heat gain.

.....

- (b) State what happens to the following when a block of ice melts;

(i) volume:

(ii) - density:

- (c) Give any **one** way in which ice is useful to people.

.....

51. (a) Apart from producing sweat, give any **two** functions of the skin to a primary seven candidate.

(i)

(ii)

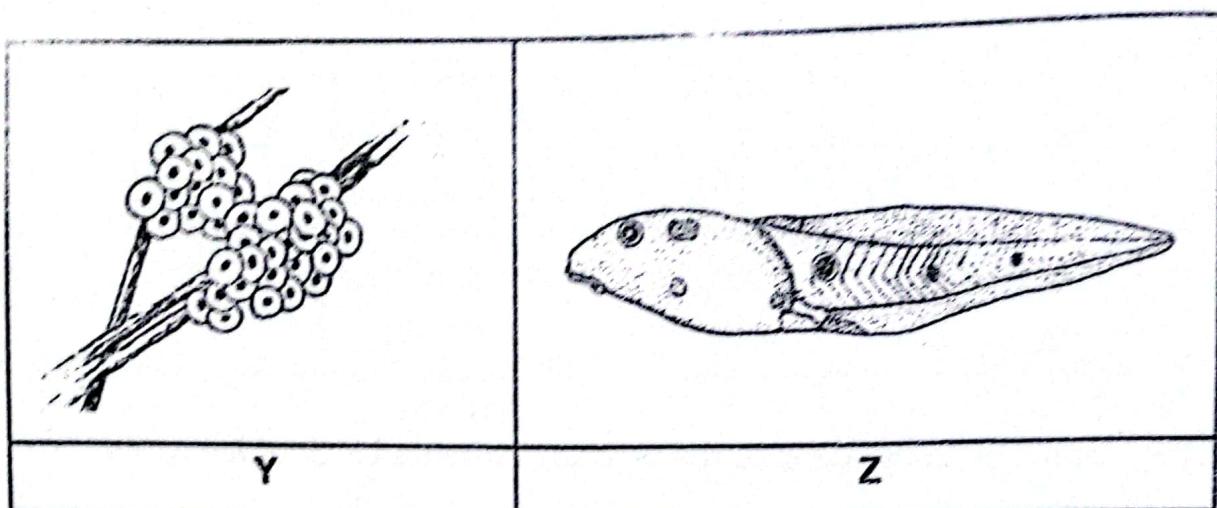
- (b) In which **one** way is sweat produced by the human skin useful to a primary seven candidate?

.....

- (c) State any **one** practice that can damage the skin of a primary seven candidate.

.....

52. The diagram below shows the stages in the growth of an amphibian. Study and use it to answer the questions that follow.



- (a) Identify the amphibian that lays the eggs marked Y.

.....

- (b) Which class of vertebrates breathe the same as the stage marked Z?

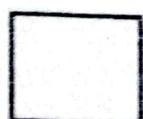
.....

- (c) What type of fertilization do the eggs marked Y undergo?

.....

- (d) State any one characteristic of an amphibian that lays the eggs marked Y.

.....



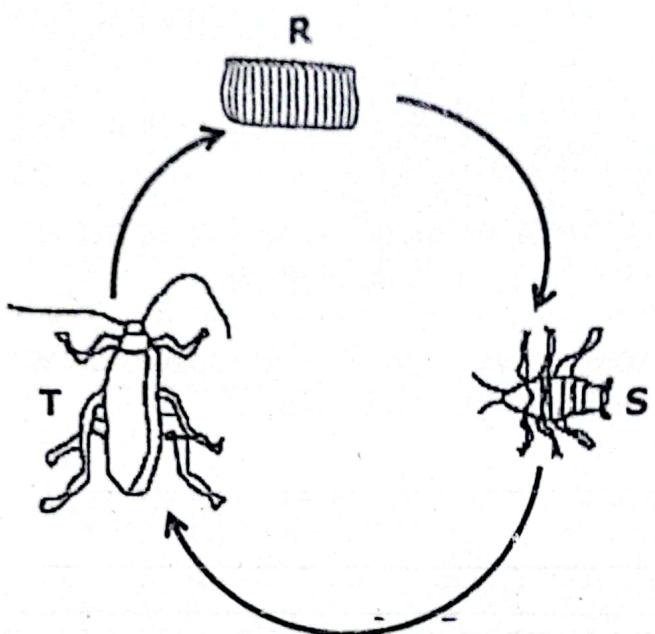
53. The sentences below show the process of hearing in wrong order.
- (a) The cochlea converts vibrations into the nerve impulses.
 - (b) The pinna picks the sound waves and the ear canal sends them to the eardrum.
 - (c) The nerve impulses are later sent to the brain for interpretation through the auditory canal.
 - (d) The eardrum changes sound waves into sound vibrations and sends it to the ossicles to be amplified.

Write the sentences above correctly in the spaces provide below to show the process of hearing in human beings.

- (a)
-
- (b)
-
- (c)
-
- (d)
-

54. (a) Write down any **two** causes of poisoning at home.
- (i)
 - (ii)
- (b) Why is it **not** advisable to make a casualty who has drunk jik to vomit.
-
- (d) State any **one** way in which poisoning can be prevented at home.
-

55. The diagram below shows the biological change in a vector. Study and use it to answer the questions that follow.



(a) Identify the biological process shown in the diagram above.

.....

(b) Name the stages the stages marked **R** and **S** on the diagram.

(i) **R** :

(ii) **S** :

(c) Give any **one** disease transmitted by the stage marked **T** to people.

.....

