



SURREKEY EXAMINATIONS BOARD
PRIMARY SEVEN PRE REGISTRATION SET
2023

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.						Personal No.		

Pupil's Name:

Pupil's Signature:

School Name:

District Name:

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** on the paper.
2. This paper has two sections: **A** and **B**.
Section **A** has **40** questions and section **B** has **15** questions. The paper has **14** printed pages.
3. Answer **all** questions. **All** working for both sections **A** and **B** must be shown 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 disease vector that spreads dengue fever to people.

.....

2. State any **one** disadvantage of failing to bathe daily.

.....

3. What is the importance of including iron in one's diet?

.....

4. State any **one** use of electricity in industries.

.....

5. Name the type of soil suitable for making building blocks.

.....

The diagram below is of a root tuber. Use it to answer questions **6** and **7**.



6. Identify the type of root system the above root tuber has.

.....

7. How is the above root tuber propagated?

.....

8. Name any **one** group of cold blooded vertebrates.

.....

9. Give the biological method of controlling rats at home.

.....

10. Why does a farmer cut off the roots of a banana sucker before planting it?

.....



11. Apart from east coast fever, give any **one** other disease spread to goats by ticks.

.....

12. Give any **one** reasons why school going girls are advised to abstain from sex.

.....

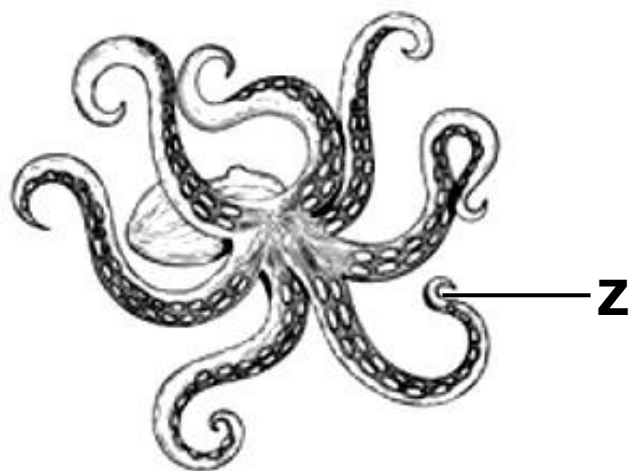
13. State any **one** role of work bees in the hive.

.....

14. State any **one** habit that helps to control parasites on the body of an individual.

.....

The diagram below shows an organism. Use it to answer questions **16** and **17**.



15. To which group of invertebrates does the above organism belong?

.....

16. State any **one** function of part marked **Z** to the above organism.

.....

17. Give any **one** way in which white ants benefit from soil.

.....

18. Apart from eggs, name any **one** other source of animal proteins.

.....

19. In which way are plants important in the formation of rain?

.....

20. State the method used to remove iron bits from maize flour.

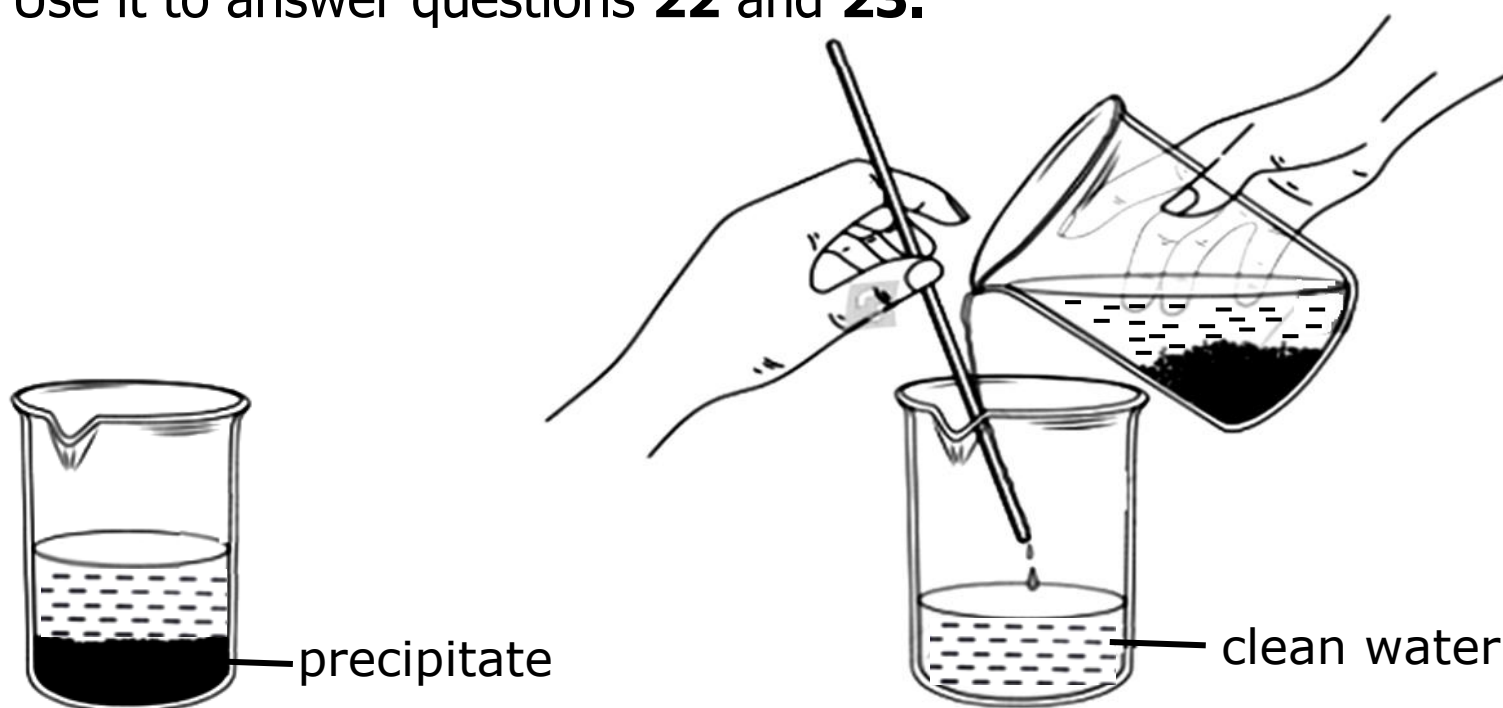
.....



21. How does a coffee plant benefit from a butterfly visiting it?

.....

The diagram below shows a method of obtaining clean water from dirty water. Use it to answer questions **22** and **23**.



22. Name the method of obtaining clean shown in the diagram above.

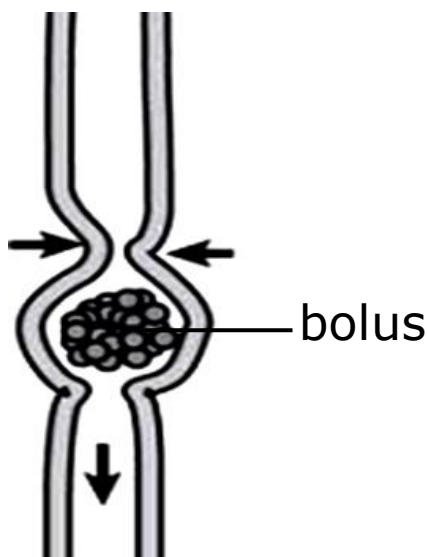
.....

23. Why is water obtained by the above method not recommended for drinking?

.....

24. How are the egg stage and pupa stage of a housefly similar?
.....
25. Which alloy is formed from the mixture of copper and tin?
.....
26. Apart from supplying oxygen and food to the foetus, give any **one** other function of the placenta to a developing foetus.
.....
27. Why is measles immunized at the age of nine months?
.....
28. Which structure at a joint is affected by sprains?
.....

The diagram below shows the process involved in digestion. Use it to answer questions **29** and **30**.



29. Identify the process shown in the diagram above.
.....
30. In which way is the above process useful during digestion?
.....
31. Apart from ringworm, mention any **one** other fungal skin disease.
.....



32. How do food manufacturers benefit from the gas produced during respiration?
-
33. Name the farm practice that helps a farmer to keep the right crop numbers in the garden.
-
34. Which part of the human ear changes sound waves into vibrations?
-
35. How is the hair useful to a doe when it is about to produce its young ones?
-
-
36. Give any **one** advantage of dehorning cattle.
-
37. Why is displacement method suitable for measuring the volume of a stone?
-
-
38. State any **one** role of the school health committee in promoting Primary Health Care (P.H.C).
-
39. Which physical process enables a person to fry sauce using butter?
-
40. Give any **one** sign and symptom of worm infestation.
-

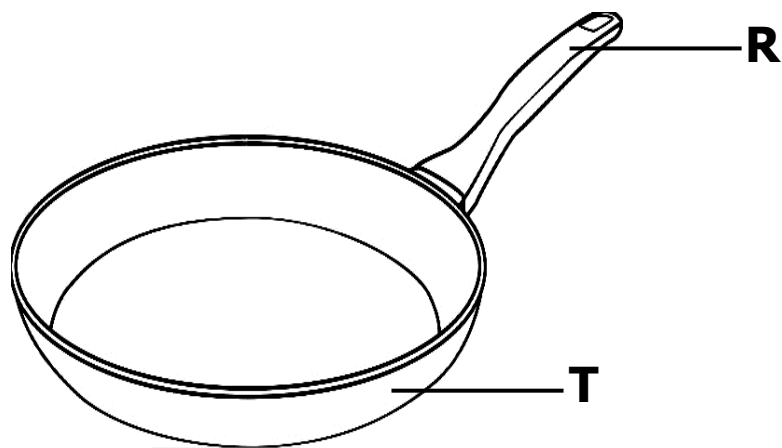


SECTION B: 60 MARKS

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

41. a) Give the function of each of the following types of teeth in the mouth.
- i) Canine teeth
 - ii) Molar teeth
- b) Mention **two** mineral salts that make teeth strong and hard.
- i)
 - ii)

42. The diagram below shows a cooking utensil. Study it and answer the questions that follow.



- a) Name any **one** material used to make part **R**.
-
- b) Give any **two** reasons why aluminum is commonly used to make part **T**.
- i)
 - ii)
- c) How does heat travel through the above utensil when in use?
-

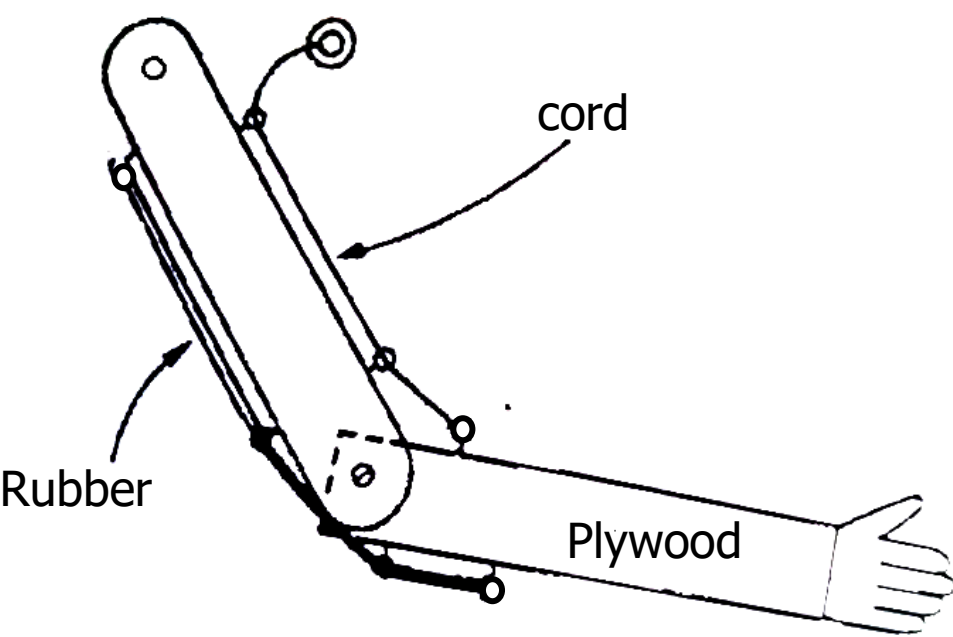
43. a) State any **two** factors that affect the weight of an object.
- i)
- ii)
- b) Give any **two** differences between weight and mass.
- i)
.....
- ii)
.....



44. a) Write down any **two** breeds of sheep kept for wool production.
- i)
- ii)
- b) Which practice in sheep is done to obtain wool from sheep?
-
- c) Why is the above practice done during dry season?
-

- 45 a) Write down any **two** conditions that favour the breeding of bacteria.
- i)
- ii)
- b) State any **two** ways of controlling harmful bacteria in the environment.
- i)
- ii)

46. The diagram below shows a model of the human arm. Study and use it to answer the questions that follow.



- a) Identify the muscle represented by;
 - i) The cord
 - ii) The rubber.....

b) What type of human body muscles are represented in the above diagram?
.....

c) What happens to the cord when the fore plywood is raised?
.....



47. a) Name any **one** material from which local salt can be prepared at home.
.....

b) State the method that is used to prepare local salt.
.....

- c) Give any **two** ways in which the local salt prepared at home is useful to people.
- i)
 - ii)

48. The table below shows poultry management practices in part **A** and their importance in part **B**.

A: Practice	B: Importance
Debeaking	Enable a farmer to plan for poultry
Culling	Helps to control endoparasites in poultry
Deworming	Controls poultry vices on the farm
Record keeping	Controls the breed of poultry

Match correctly the poultry management practices with their importance in the spaces provided below.

- i) Debeaking
- ii) Culling.....
- iii) Deworming
- iv) Record keeping

49 a) Mention any **one** danger of lightning in the environment.

.....

b) State any **two** ways in which people can safeguard against dangers of lightning.

i)

ii)

c) Give a reason why light is usually seen in the sky before hearing the sound of thunder.

.....



50 The table below shows accidents, body parts affected by them and required first aid. Complete it correctly.

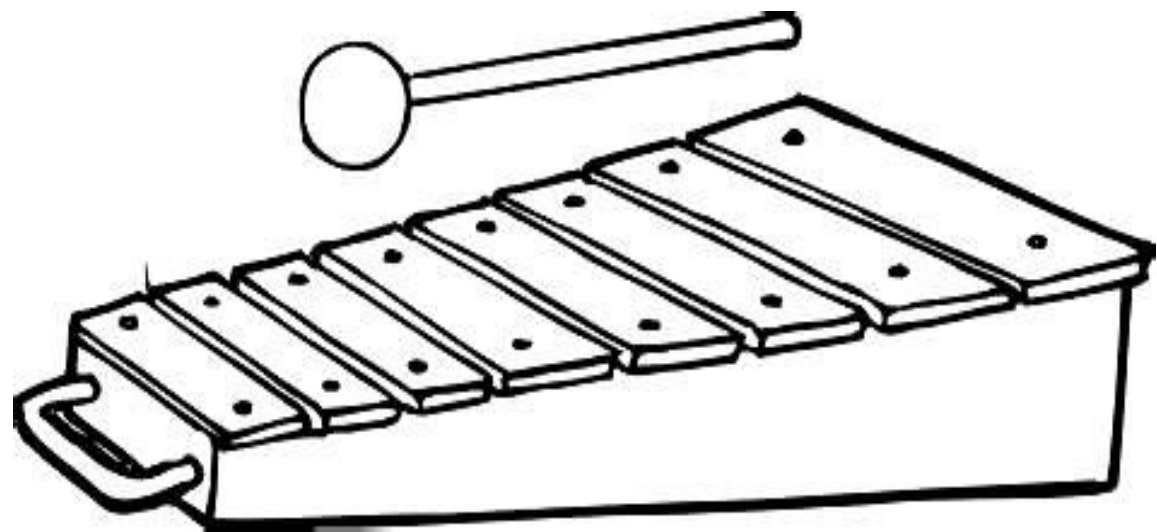
Accident	Body parts affected	Required first aid
Fracture	Limbs
Scald	Dip the injured part in cold water
.....	Ligament	Apply cold compress
Fainting	Brain

- 51 a) Name the deficiency disease that results from the deficiency of vitamin **A** in the human body.
-
- b) State any **two** signs of vitamin **A** deficiency disease in humans.
- i)
- ii)
- c) Give any **one** example of food which gives us vitamin **A**.
-

- 52 a) Name the body system responsible for the production of energy.
-
- b) Mention any **one** raw material needed for the above system to produce energy.
-
- c) State any **two** ways of caring for the system named in (a) above.
- i)
- ii)



53 The diagram below shows a musical device. Study and use it to answer the questions the follow.



a) Identify the group of musical instruments to which the above device belongs.

.....

b) How does the above musical device produce sound?

.....

.....

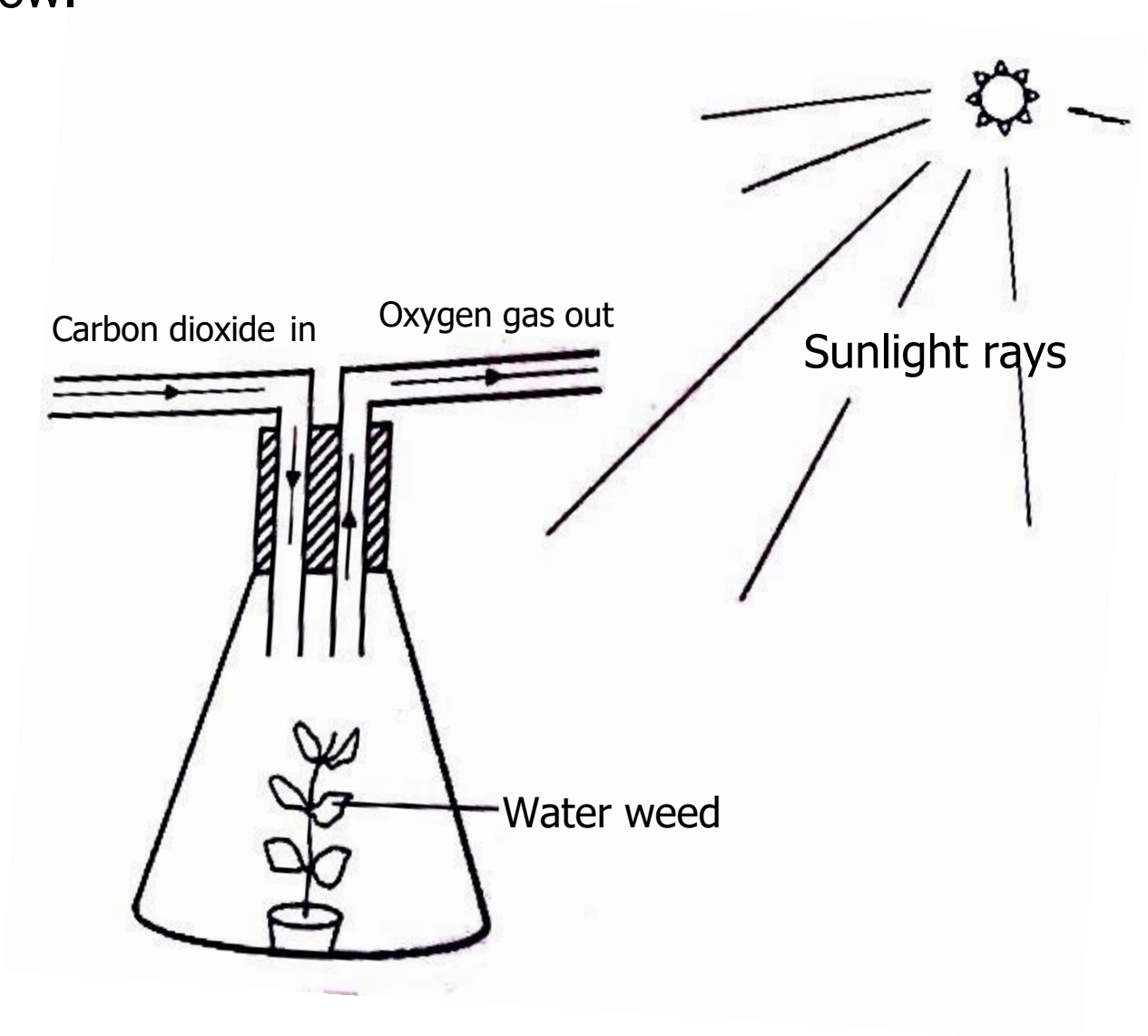
c) State any **one** way in which the pitch produced by the above musical device can be varied.

.....

d) Mention any **one** other device that can be grouped together with the musical device above.

.....

54 The diagram below shows an experiment carried out to investigate a certain process in plants. Study and use it to answer the questions that follow.



- a) Name the plant process shown in the experiment.
-
- b) State any **two** factors that affect the rate of the above plant process.
- i)
- ii)
- c) Give any **one** way in which animals benefit from the above plant process.

.....

55 a) How are white blood cells important in the human body?

.....

b) Give **two** ways in which the white blood cells perform the above function.

i)

ii)

c) Which disease leads to abnormal production of white blood cells in the body?

.....



