



SURREKEY EXAMINATIONS BOARD
PRIMARY SEVEN PLE PREPARATION SET I
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 human body organ that purifies blood.

.....

2. State any **one** chemical method used to control the spread of malaria among children.

.....

3. Which type of manure is got from rotten legumes?

.....

4. Name the part of the digestive system that is affected by peptic ulcers.

.....

5. What is the function of the suckers on a tapeworm?

.....

The diagram below shows an animal. Use it to answer questions **6** and **7**.



6. Name the group of mammals to which the above animal belongs.

.....

7. How is the feeding of the above animal similar to that of an eagle?

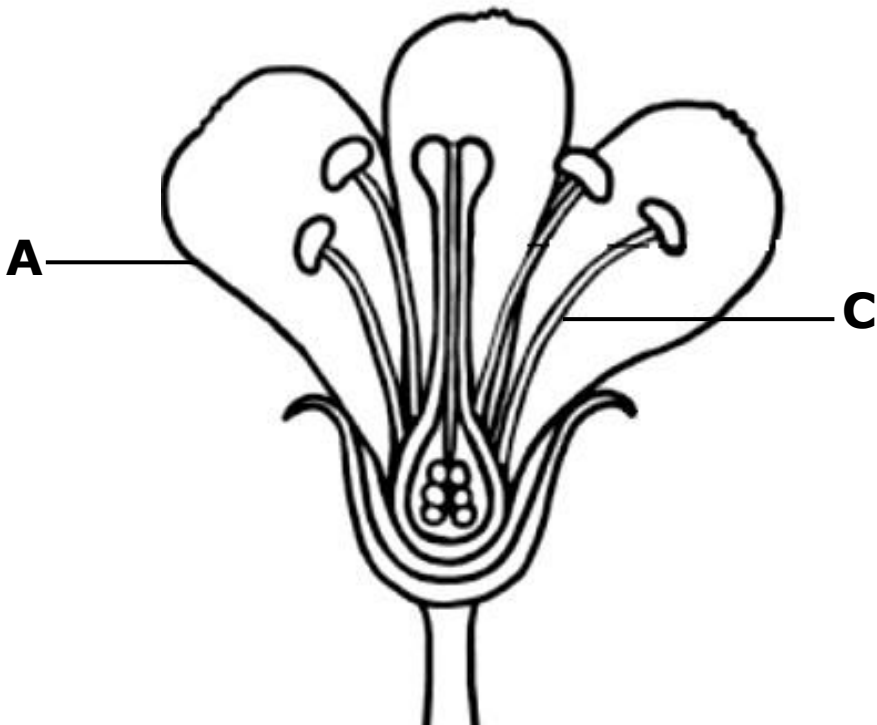
.....

8. Which nature of tools are affected by rusting?
.....
9. State the property of air that enables a child to fly a kite.
.....
10. State any **one** condition that can make planted seeds fail to germinate.
.....
-
11. Give any **one** example of a deficiency disease that attacks the skeletal system.
.....
12. Give any **one** way in which the spread of bacterial diseases through food can be controlled.
.....
13. Which method of heat transfer helps a smoker to light cigarette?
.....
14. State any **one** characteristic of cereal crops.
.....
15. Name the substance at the joint that lubricates bones.
.....
16. Give any **one** way in which health parades are important at school.
.....
17. State any **one** advantage of keeping the rabbit hutches clean and dry.
.....

18. How does a tsetse fly spread disease germs?
.....
19. State any **one** danger of self medication to human health.
.....
20. Give any **one** life skill that children need to develop in order to safeguard themselves against sexually transmitted diseases (STDs).
.....



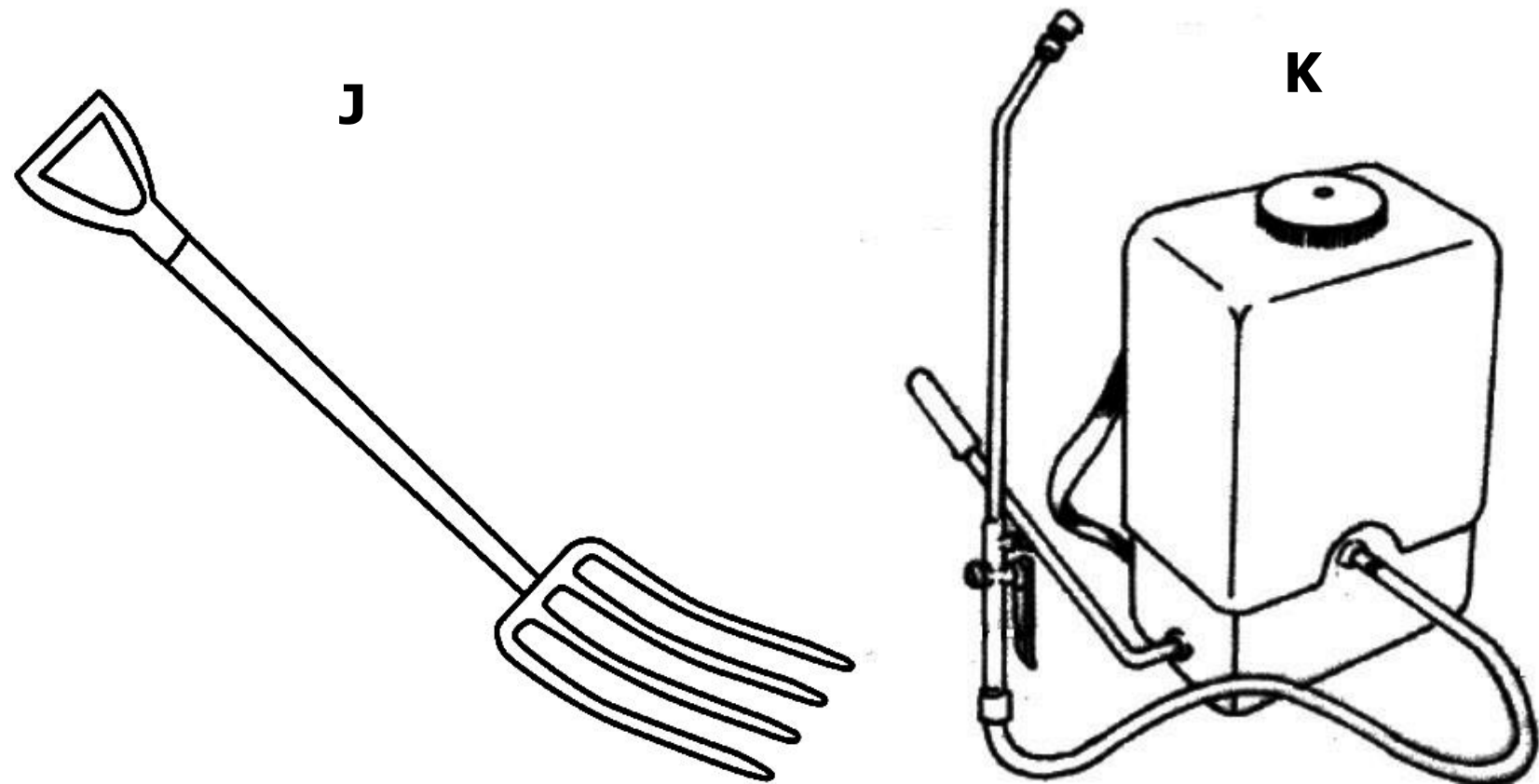
The diagram below shows a flower. Use it to answer questions **21** and **22**.



21. Name the part marked **C**.
.....
22. How is part marked **A** able to attract worker bees to visit the flower?
.....
23. Give any **one** way of keeping the lungs in proper working condition.
.....
24. How does calcium chloride make water safe for drinking?
.....

25. Name the type of teeth that are well developed in mole rats.
-
26. Apart from using spores, give **one** other way in which fungi reproduce.
-
27. Why does a tilapia die when removed from water?
-
-

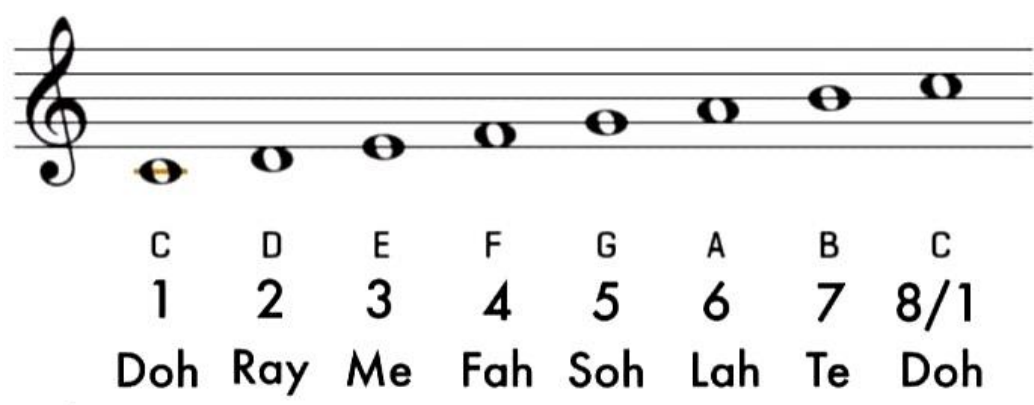
The diagram below shows garden tools. Use it to answer questions **28** and **29**.



28. Name the garden tool marked **K**.
-
29. Write down any **one** activity in the garden done using the garden tool marked **J**.
-
30. State any **one** characteristic of crustaceans.
-

31. Apart from using a fire extinguisher, state any **one** other way of putting out petrol fire.
-
32. How do railway builders prevent the railway lines from bending?
-
33. Name the substance which worker bees use to repair damaged parts of the hive.
-
34. How does the use of solar energy for cooking help to conserve trees?
-
-

The diagram below shows a method of writing music. Use it to answer questions **35** and **36**.



35. Identify the method of writing music shown above.
-
36. Give any **one** way in which music written by the above method can be reproduced.
-
37. Give any **one** reason why polythene bags should be properly disposed.
-

38. How is lightning similar to nitrogen fixing bacteria in the way they improve soil fertility?

.....

.....

39. Give any **one** advantage of breast feeding to a baby.

.....

40. Name the biological change in plants that is similar to moulting in animals.

.....



SECTION B: 60 MARKS

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

41. a) Mention any **two** changes of state of matter that take place in the absence of heat.

i)

ii)

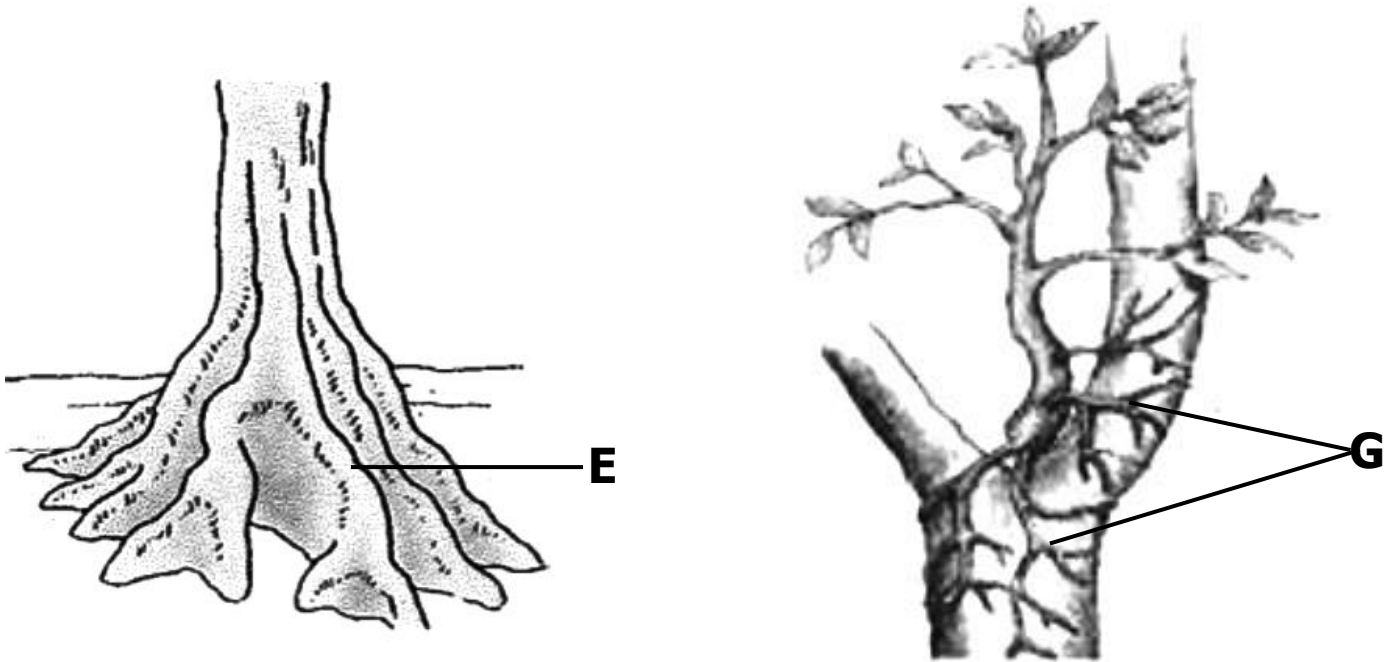
b) State any **one** characteristic of matter.

.....

c) Which force of attraction of matter enables the written work to stick on paper?

.....

42. The diagram below shows types of roots. Study and use it to answer the questions that follow.

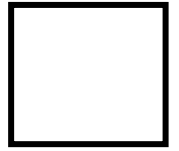


- a) Name the type of roots marked **E**.
.....
- b) How are roots marked **G** important to plants?
.....
- c) Write down any **one** plant that grows the type of roots marked **E**.
.....
- d) In which way are roots marked **E** different from root hairs in terms of their function?
.....
.....

43. a) Apart from leaching, state any **two** factors that can make soil lose its fertility.
- i)
 - ii)
- b) In which way does leaching make the soil lose its fertility?
.....

- c) Give any **one** method that a crop farmer can use to maintain soil fertility.

.....



44. a) Write down any **two** activities done under the child to child programme.

i)

ii)

- b) State any **two** ways in which child to child programme is important to school children.

i)

ii)

- 45 a) Name the disease in rabbits whose signs are bent ears, wounds in ears and itching ears.

.....

- b) Give any **one** way in which the above disease affects a rabbit farmer.

.....

- c) State any **two** ways of controlling the above disease in rabbits.

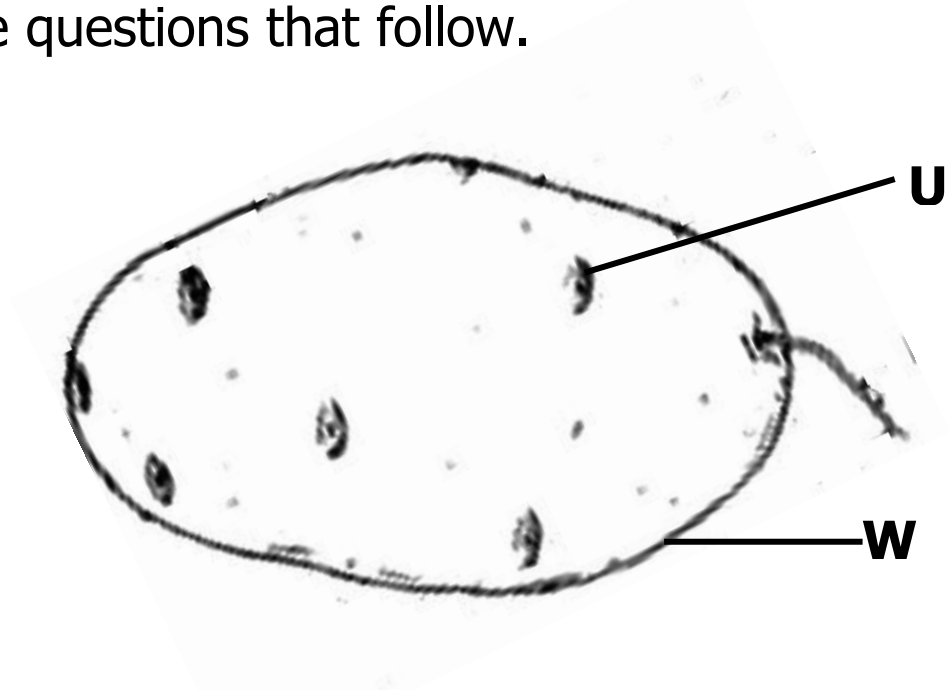
i)

ii)

46. a) Write down any **two** instruments used to measure the weight of an object.
- i)
- ii)
- b) What determines the sinking or floating of an object?
-
- c) Why does the weight of an object increase when an object is in air?
-



47. The diagram below shows an underground stem. Study and use it to answer the questions that follow.



- a) Identify the group of underground stem to which the above plant belongs.
-
- b) Name the parts marked **U** and **W**.
- i) **U**
- ii) **W**
- c) How is the above plant propagated?
-

48. a) Where in the body does respiration take place?

.....

b) Name any **two** raw materials used by the human body for respiration.

i)

ii)

c) How do plants make use of the gas produced by animals during respiration?

.....

49 a) How are the following useful in the process of reproduction?

i) testes

ii) ovaries

b) In which part of the female reproductive system does each of the following take place?

i) fertilization

ii) implantation



50. a) Apart from yeast, write down any **two** other examples of fungi.

i)

ii)

b) Give any **two** ways in which yeast is useful to people.

i)

ii)

51. The diagram below shows a burning candle. Study and use it to answer the questions the follow.



- a) Name the part marked **M**.
.....
- b) What type of change takes place as the above candle melts?
.....
- c) State what would happen to part **M** when a container is covered
On the above candle.
.....
- d) Give a reason for your answer in (c) above.
.....

52. a) Name the system of keeping poultry where birds are allowed to look for their own food.
.....
- b) Give any **two** advantages of the above system of keeping poultry.
- i)
 - ii)

- c) Apart from the above system, name any **one** other system of keeping poultry.

.....



53. a) Give any **two** examples of ectoparasites in cattle.

i)

ii)

- b) State any **one** effect of ectoparasites to cattle.

.....

- c) In which **one** way can ectoparasites be controlled in cattle?

.....

54. a) Give the difference in use between a rubbish pit and a pit latrine.

.....

.....

- b) Why should a Ventilated Improved Pitlatrine (VIP) be left without a lid to the hole?

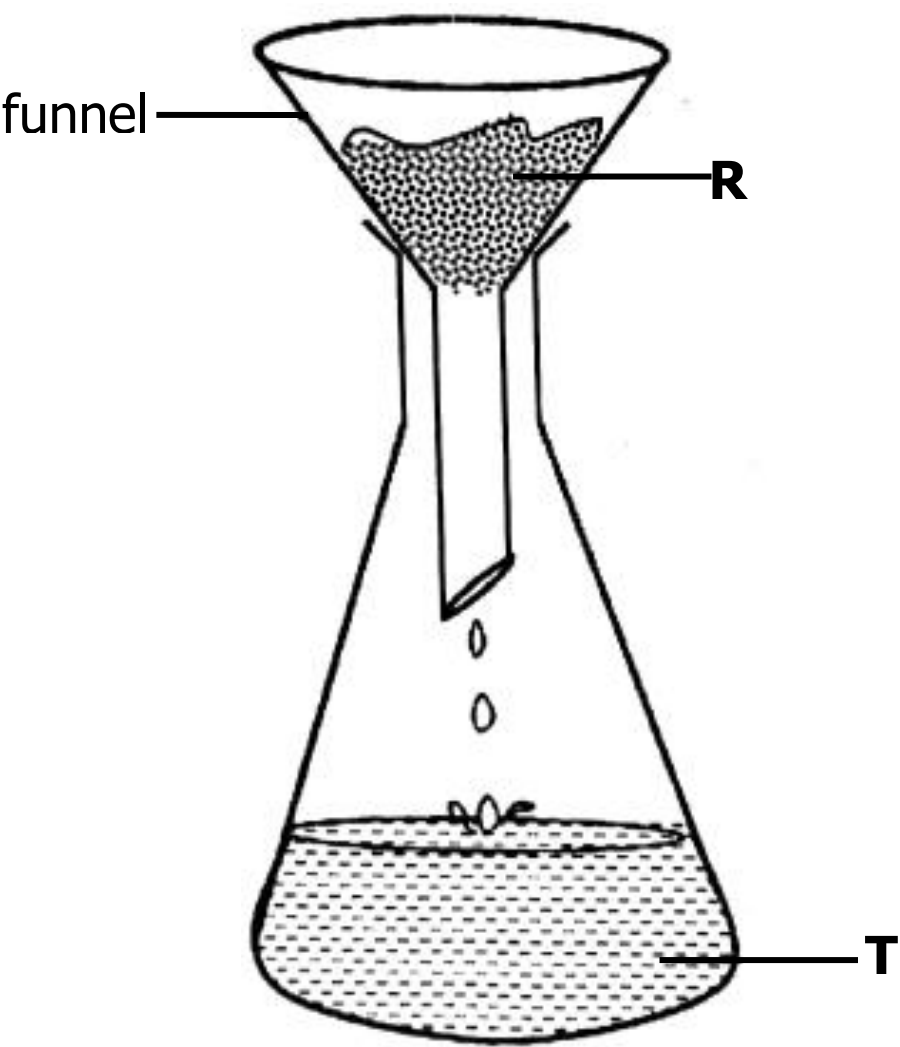
.....

- c) State any **two** ways in which proper use of latrines is important in the community.

i)

ii)

55. The diagram below shows a method of making water clean. Study and use it to answer the questions that follow.



a) Identify the method of making water clean shown in the above diagram.

.....

b) Name the substances marked **R** and **T**.

i) **R**

ii) **T**

c) Give any **one** other activity done at home using the above method.

.....



