



SURREKEY EXAMINATIONS BOARD  
PRIMARY SEVEN PLE PREPARATION SET II  
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 **16** 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 part of a tapeworm that stores eggs.

.....

2. Which vector spreads filariasis to people?

.....

3. State any **one** way in which soil erosion affects a crop farmer.

.....

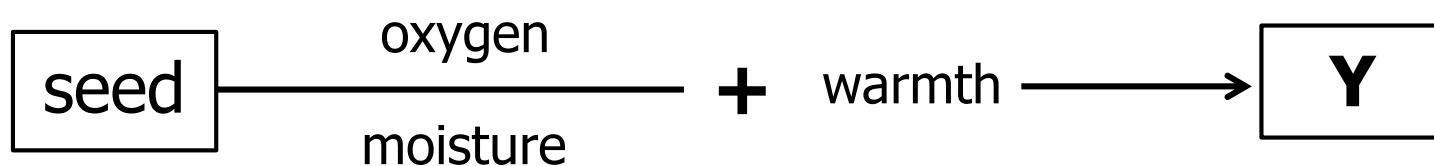
4. Give any **one** method of controlling spear grass in a maize garden.

.....

5. How is a tungsten filament able to increase electrical filament in the bulb?

.....

The diagram below shows a growth stage in plants. Use it to answer questions **6** and **7**.



6. What is the name of the stage at **Y**?

.....

7. Name the plant process that leads to the formation of stage **Y**.

.....

8. Which part of a ewe is removed during docking?

.....

9. Name the condition that results from the destruction of red blood cells by plasmodia parasites.

.....

10. Why should rabbits be given a block of salt to lick?

.....



11. How is food useful during the process of respiration in the human body?

.....

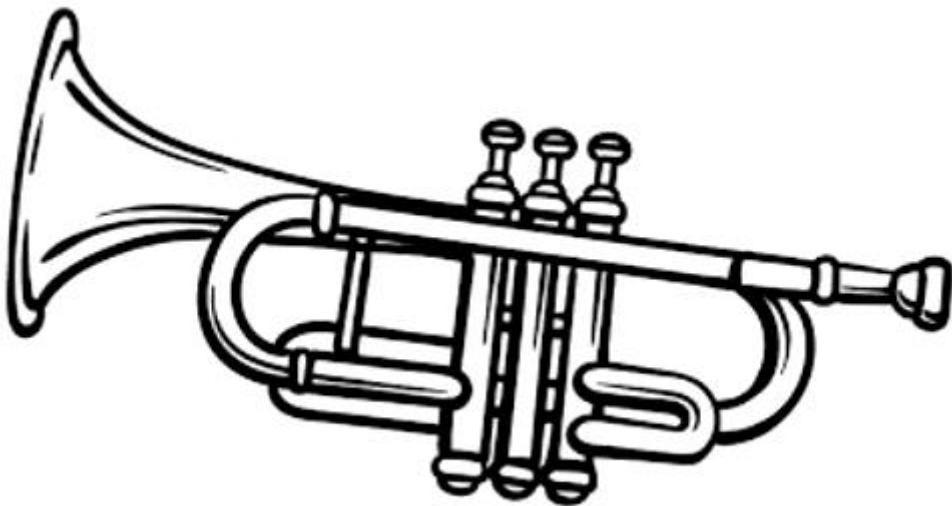
12. State any **one** way of conserving petroleum as an energy resource.

.....

13. Which method of heat transfer enables a person to use a flatiron?

.....

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



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

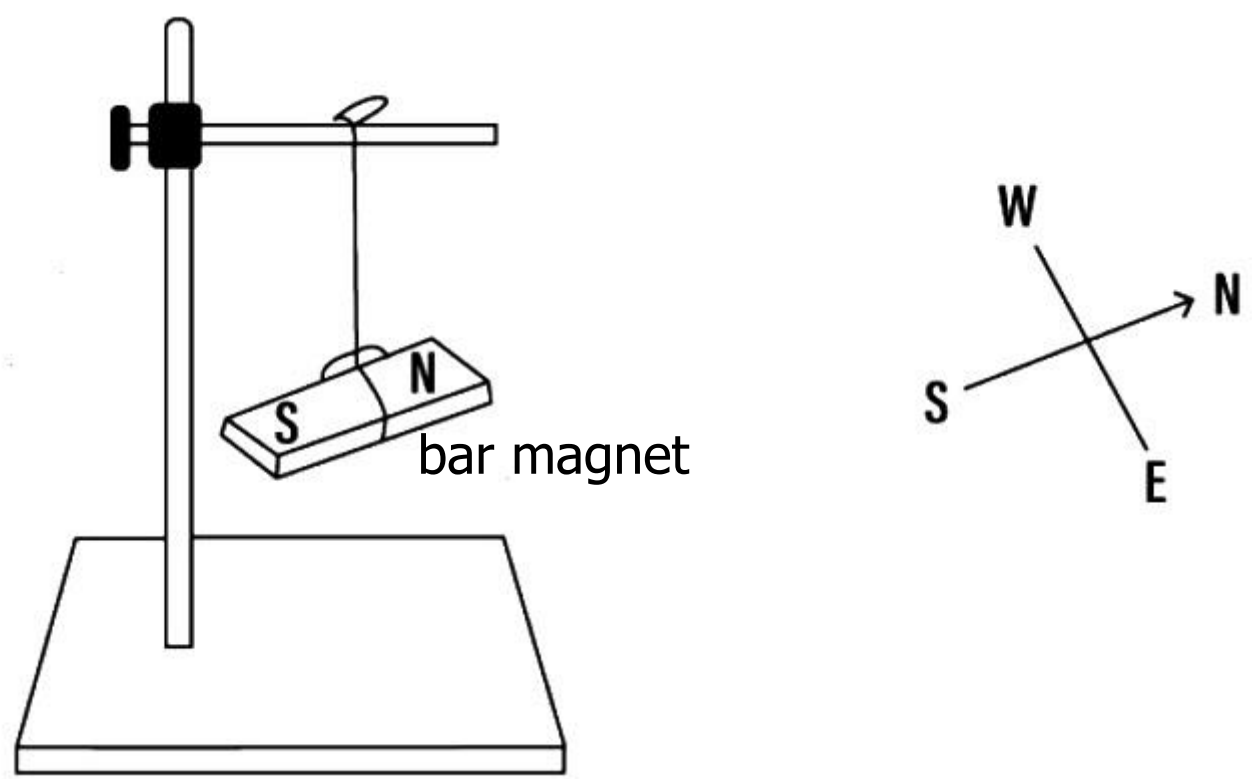
.....

15. How can pitch of the above musical instrument be increased?

.....

16. State any **one** feature of flowers pollinated by butterflies.
- .....
17. Name the group of annual crops that store seeds in pods.
- .....
18. State any **one** way in which a tilapia is similar to a newt in the way they multiply.
- .....
19. What first aid would you give to a casualty who has got a cracked bone?
- .....
20. Name the structures in the vein that have the same function as the kink on the clinical thermometer.
- .....
- A small empty square box, likely for a mark or a drawing.
21. Mention any **one** natural factor that lowers the quality of the environment.
- .....
22. State any **one** danger of harmful bacteria to a livestock farmer.
- .....
23. Give any **one** life skill that adolescent girls need to develop in order to safeguard themselves against early pregnancy.
- .....
24. Name the structure on the top bar hive that prevents the queen bee from mixing eggs with honey.
- .....

The diagram below shows a property of magnets. Use it to answer questions **25** and **26**.



25. Which property of magnets is shown in the diagram above?  
.....
26. Give **one** way in which the property of magnets above is useful to pilots.  
.....
27. Give any **one** advantage of food taboos in the community.  
.....
28. State any **one** characteristic that makes dissolving of salt in water a physical change.  
.....
29. Apart from washing, give any **one** other way in which bad smell can be controlled in bed sheets.  
.....

30. How does a shrimp benefit from shedding its cuticle?

.....

31. Name the system of keeping chicken where birds are kept in movable structures in an open floor.

.....

32. State the similarity in function between human brain and the human ear.

.....

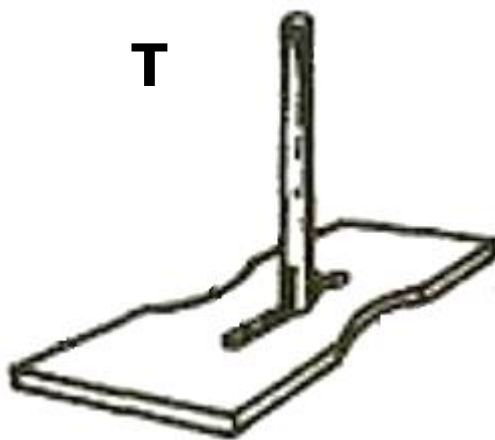
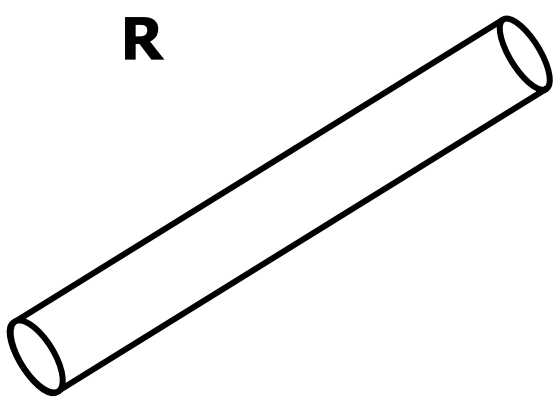
33. A stone weighing 21grams with mass per unit volume of 7g/cc is immersed in water. How much water will it displace?

34. How does deforestation affect the production of hydroelectricity?

.....

.....

The diagram below shows structures commonly put on pit latrines. Use it to answer questions **35** and **36**.



35.

In which way is the function of structure marked **R** similar to that of ventilators on a living house?

.....
36.

Which type of a pit latrine requires the use of structure **T** on the hole?

.....
37.

State any **one** way in which good posture is important to the body.

.....
38.

In which **one** way do caecilians help to improve soil fertility?

.....
39.

Give any **one** disadvantage of having many industries in an area.

.....
40.

How do people installing electricity on poles prevent electric wires from breaking due to contraction on cold days?

.....



## SECTION B: 60 MARKS

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

41. a) How is charcoal formed?

.....

b) What form of energy is stored in charcoal?

.....

c) State any **two** ways in which the use of charcoal is dangerous to the environment.

i) .....

ii) .....

42. a) Apart from the liver, give any **two** other parts of the human digestive system that produce juice.

i) .....

ii) .....

b) Name the food substance acted upon by the digestive juice produce by the liver.

.....

c) Give any **one** health habit that helps to keep the digestive system in proper working condition.

.....

43. a) Apart from suckers, mention any **two** other materials that can be used to propagate pineapples.

i) .....

ii) .....



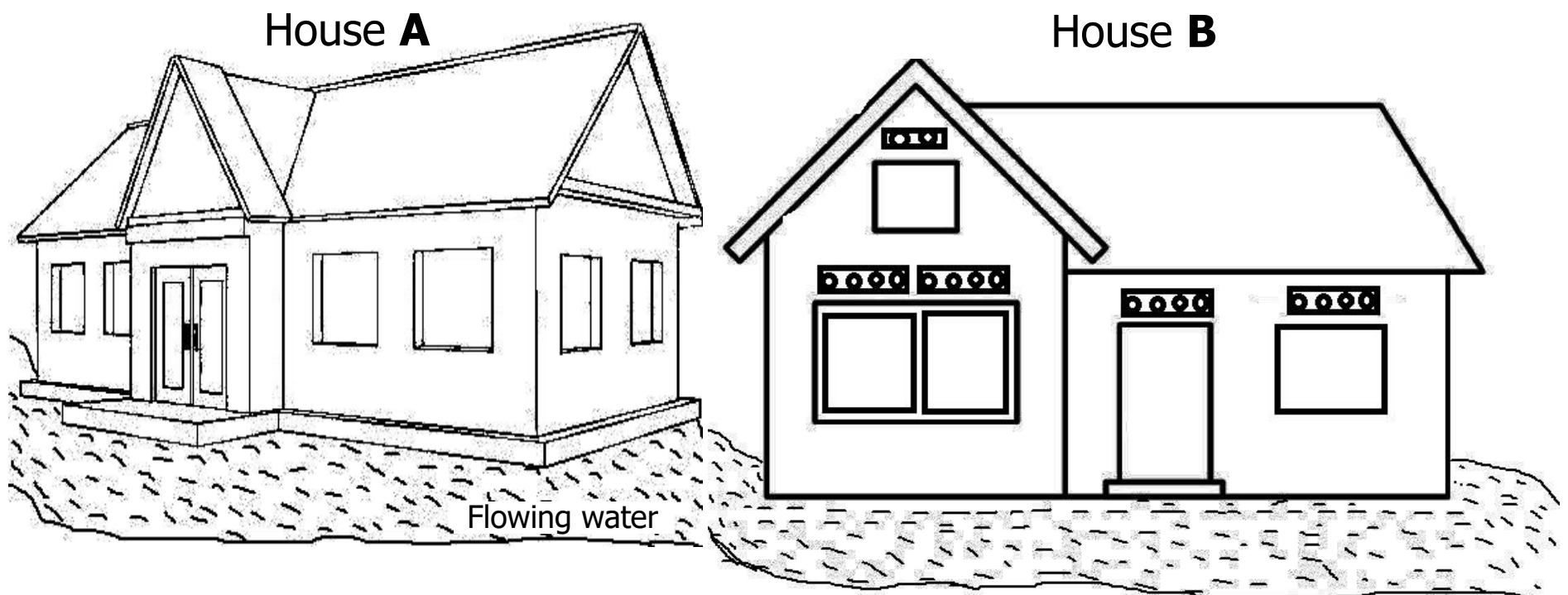
b) State any **two** advantages of vegetative propagation.

i) .....

ii) .....



44. The diagram below shows two houses **A** and **B**. Study and use it to answer the questions that follow.



a) Which house will be greatly affected by flowing water during rainy season?

.....

b) Why would the house in a) above be greatly affected by flowing water?

.....

c) What advice would you give to the owner of the house given (a) above be to control the effect of flowing water during rainy season?

.....

d) Identify the important part missing on house **A**.

.....

- 45    a)    Write down any **two** processes that lead to the production of heat.
- i)    .....
- ii) .....
- b)    Give any **two** ways in which a poultry farmer uses heat.
- i)    .....
- ii) .....

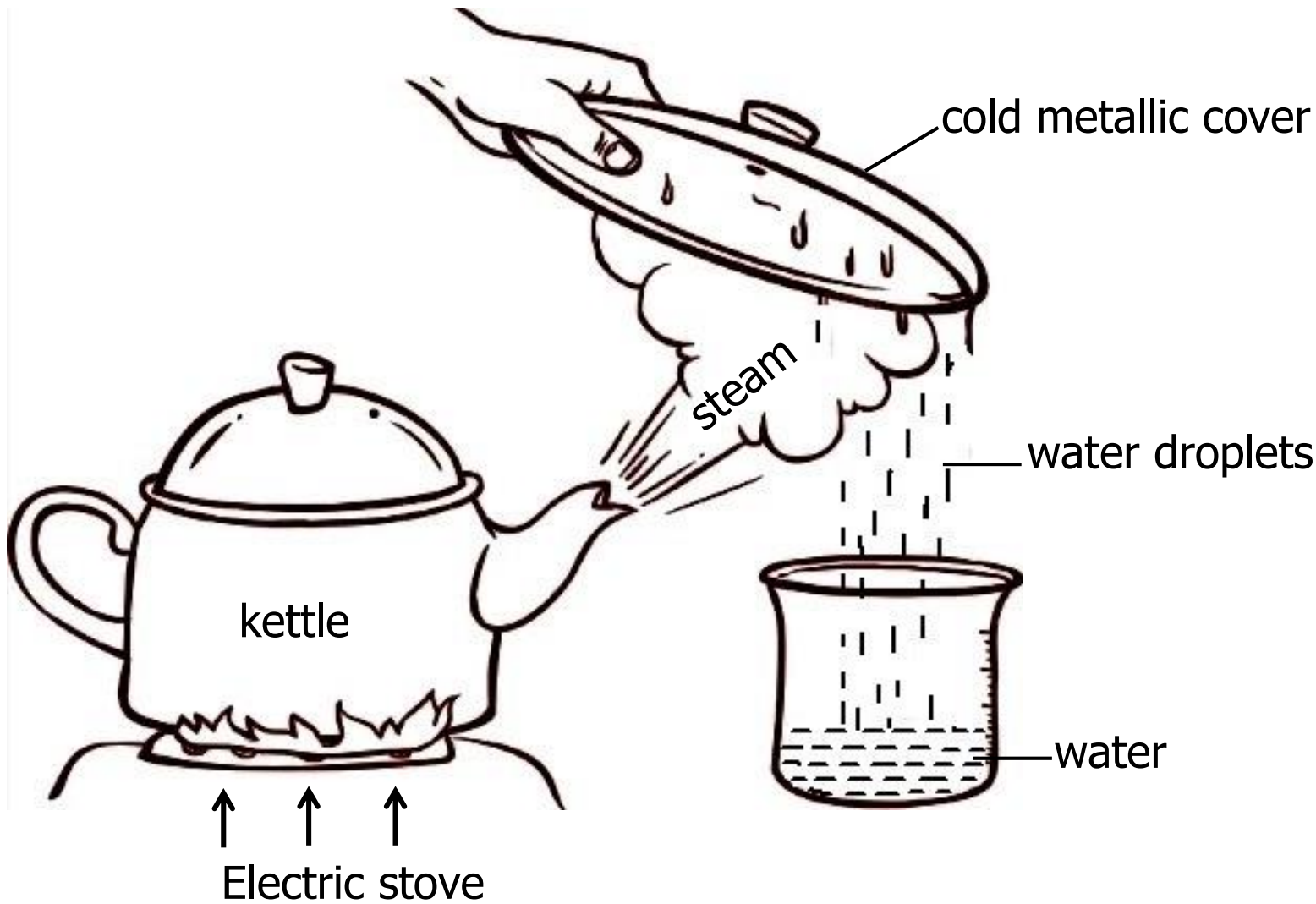
46.    The table below shows immunisable diseases, vaccines given and immunization sites. Study and complete it correctly.

Immunisable diseases	Vaccines	Immunisable site
Tuberculosis	BCG vaccine	.....
.....	DPT vaccine	Left upper thigh
Poliomyelitis	.....	Mouth
Measles	Measles vaccine	.....



47.    a)    Name the type of cattle that;
- i)    Provide labour in the garden. ....
- ii) Promote the production of yoghurt .....
- b)    Give any **two** methods that a cattle farmer can apply to improve on the quality of the types of cattle above.
- i)    .....
- ii) .....

48. The diagram below shows an experiment carried out to demonstrate a process in nature. Study and use it to answer the questions that follow.



a) Identify the process in nature demonstrated by the above experiment.

.....

b) What does each of the following represent in the experiment above?

i) Kettle .....

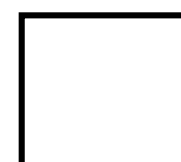
ii) cold metallic cover .....

c) State the importance of the electric stove in the above experiment.

.....

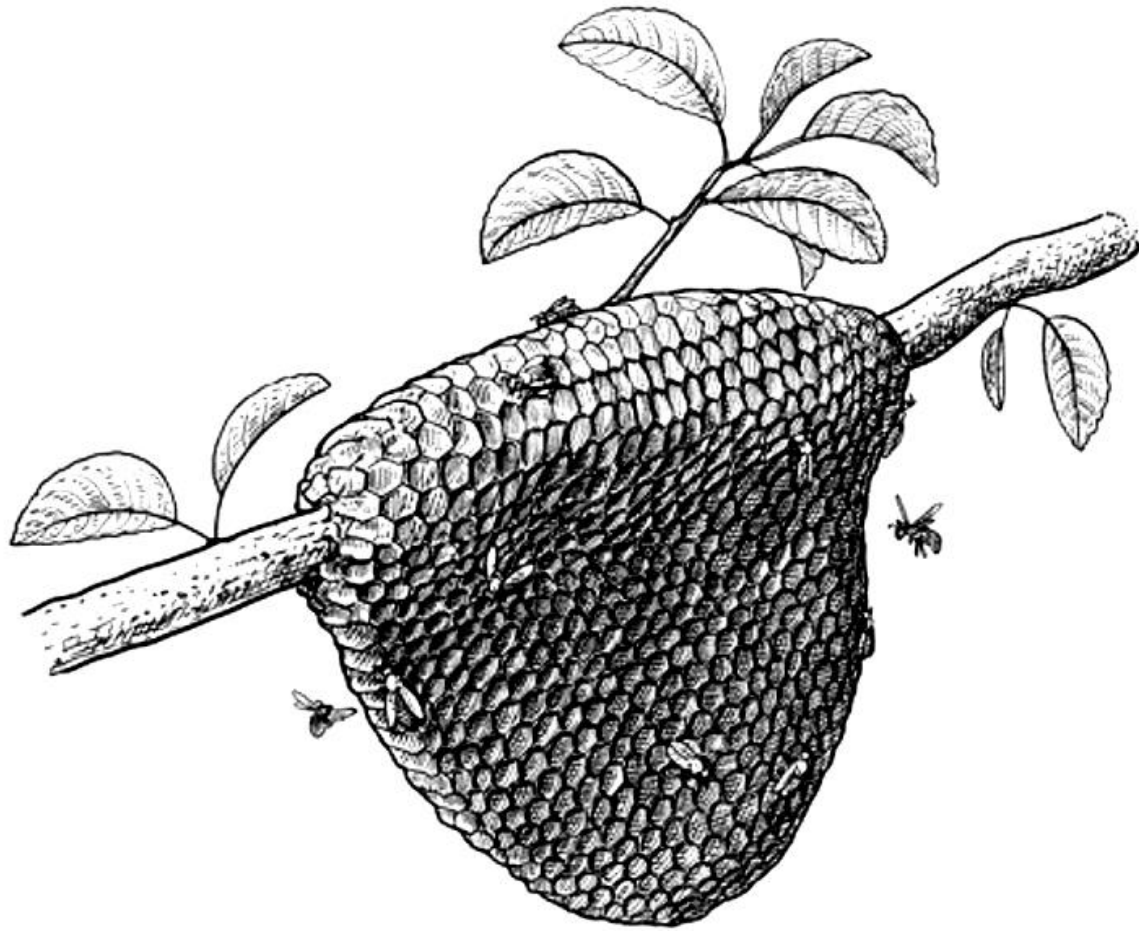
- 49 a) Name the type of teeth whose adaptation to its function is;
- i) Having sharp pointed crowns .....
- ii) Having chisel shaped crowns .....
- b) Apart from having chisel shaped crowns, which other feature does the type of teeth in a ii) above have?
- .....
- c) Why is it not advisable to give young children too much biscuits to eat?

.....



- 50 a) Which condition in humans requires applying kiss of life as a way of giving first aid?
- .....
- b) Give any **two** causes of the above condition in humans.
- i) .....
- ii) .....
- c) State any **one** way of preventing the condition given in (a) above.
- .....

51. The diagram below shows structures built by honey bees. Study and use it to answer the questions that follow.



- a) Name the structures shown in the diagram above.
- .....
- b) How are the above structures useful to honey bees?
- .....
- c) What type of honey bees build the above structures in the hive?
- .....
- d) Apart from building above structures, state any **one** other role of the above type of honey bees in the hive.
- .....

52. a) Give **two** factors that can make a panga to get a brownish coating.

i).....

ii).....

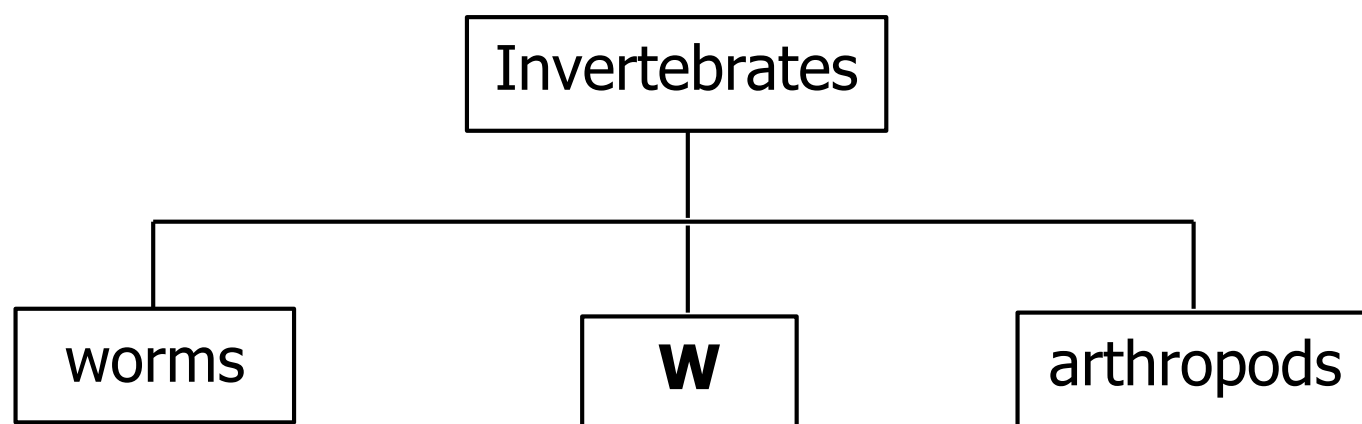
b) State any **two** effects of the brownish coating to a panga.

i) .....

ii) .....



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



a) Name the class of invertebrates represented by **W**.

.....

b) State any **one** similarity between invertebrates at **W** and worms.

.....

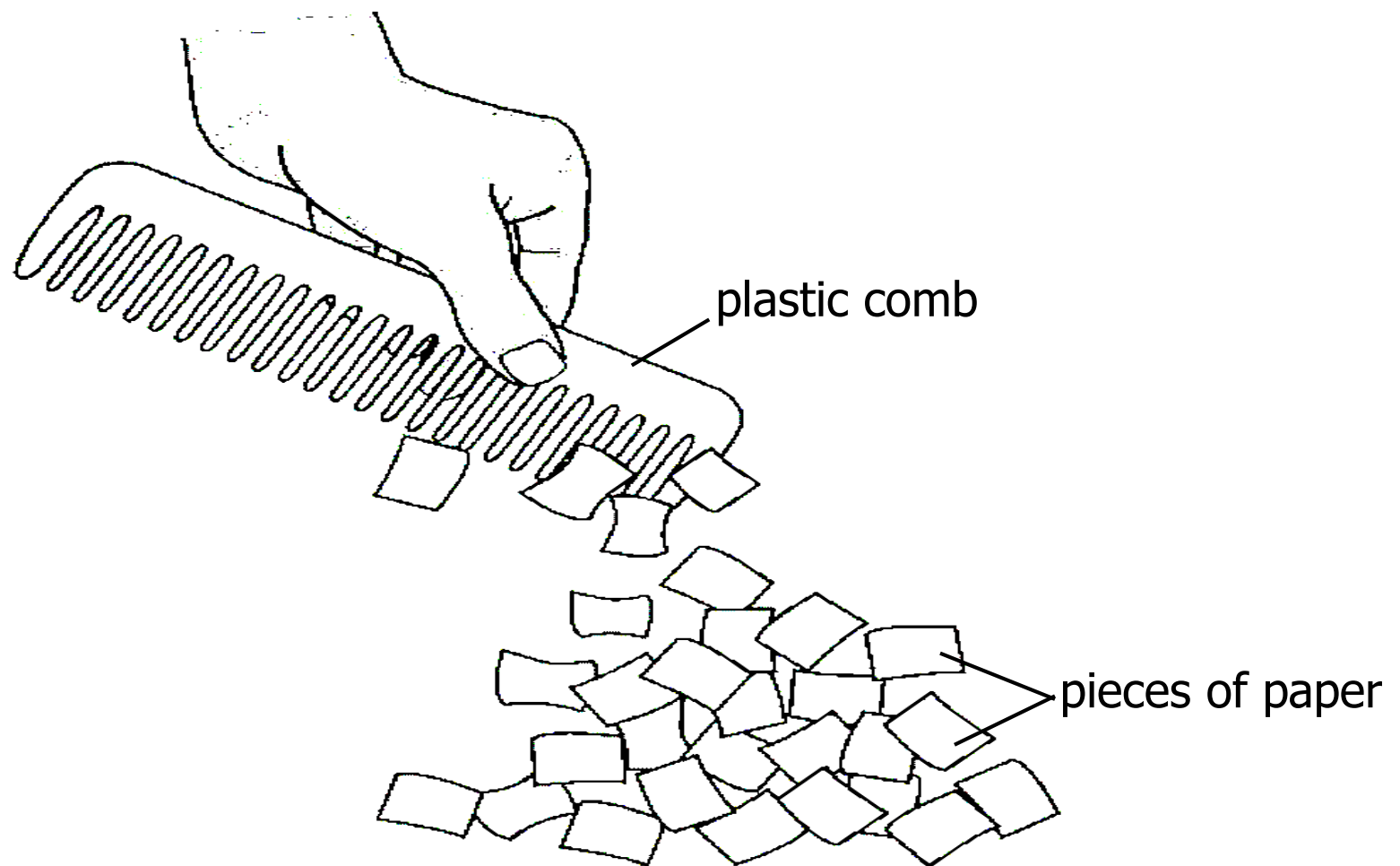
c) Mention any **one** organism that can be put at **W**.

.....

d) Identify the class of invertebrates from the table above to which a termite belongs.

.....

54. In the diagram below, a plastic comb was rubbed against a woollen cloth and brought nearer to the pieces of paper. Study and use it to answer the questions that follow.



- a) Identify the type of electricity demonstrated using the above experiment.

.....

- b) What type of charge is possessed by;

i) Pieces of paper.....

ii) Plastic comb .....

- c) Why is the plastic comb able to attract pieces of paper as shown above?

.....

.....

55. a) Name the deficiency disease which results from lack of iodine in humans.

.....

b) State the commonest sign of the above deficiency disease in humans.

.....

c) Give any **two** examples of food which give us iodine.

i) .....

ii) .....

