



SURREKEY EXAMINATIONS BOARD
PRIMARY SIX QUALITY CHECK THREE
2023

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Admission 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 **12** 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. Which type of soil has smooth and fine particles?

.....

2. Name the state of matter which has definite shape.

.....

3. How is a cobra similar to a newt in terms of body temperature?

.....

4. State any **one** way of controlling scabies among children.

.....

The diagram below shows a crop growing practice. Use it to answer Questions **5** and **6**.



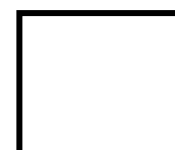
5. Name the substances marked **K**.

.....

6. State any **one** way in which substances marked **K** is important to a crop farmer.

.....

7. Give any **one** way in which fractures affect a casualty.
.....
8. Give any **one** breed of chicken that is useful to meat processing industries.
.....
9. Which food nutrient is needed to prevent pellagra among children?
.....
10. State any **one** way of controlling the breeding of lice.
.....
11. Name the human body organ that uses sound for it to function.
.....
12. Give any **one** way of protecting honey bees from hive beetles.
.....
13. Name the vaccine given to babies at birth through injection.
.....
14. State any **one** factor that reduces the rate of transpiration.
.....
15. Which method of making alcohol involves the use of yeast?
.....
16. What good health habit would you use to remove and kill harmful bacteria on hands affect egestion?
.....
17. Name the group of worms that have un-segmented bodies.
.....
18. How is sun drying helpful in the preservation of food crops?
.....



19. Give any **one** measure that can protect water contamination from water sources.

.....

20. Name the mineral salt that helps in the formation of red blood cells in the human body.

.....



21. State any **one** danger of heat in the environment.

.....

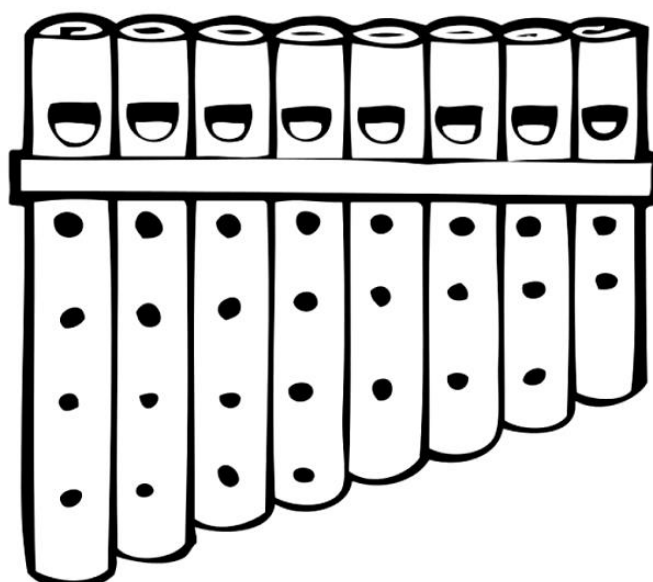
22. Give any **one** factor that leads to the outbreak of snuffles in rabbits.

.....

23. Give any **one** way of caring for elderly people at home.

.....

The diagram below shows a musical device. Use it to answer questions **24** and **25**.



24. To which group of musical instruments does the above device belong?

.....

25. How can pitch of the above musical device be increased?

.....

26. Why is decanted water not good for drinking?

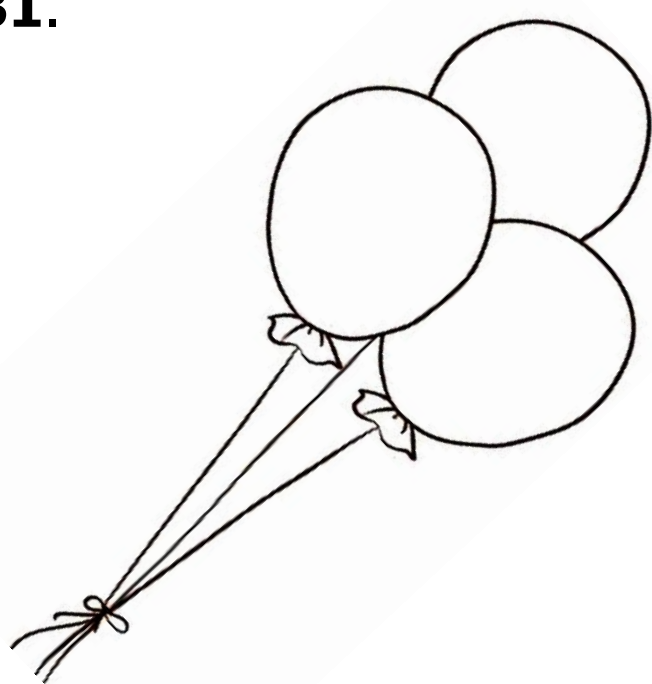
.....

27. How does a coin behave when dropped in water?

.....

28. State any **one** factor that favours the breeding of bacteria.
-
29. State any **one** piece of advice you would give to a person who suffers from constipation.
-

The diagram below shows balloons flying in air. Use it to answer questions **30** and **31**.



30. Which property of air enables the balloons above to fly in air?
-
-
31. State what happens to the balloons above when they are heated by sunshine as they fly.
-
32. Which disease is spread to humans by rats?
-
33. State any **one** way in which saliva is important during digestion.
-
34. Give any **one** way of controlling cholera in the community.
-
35. Give any **one** reason why water is not used in thermometers.
-
36. State any **one** method used to control squirrels in the garden.
-

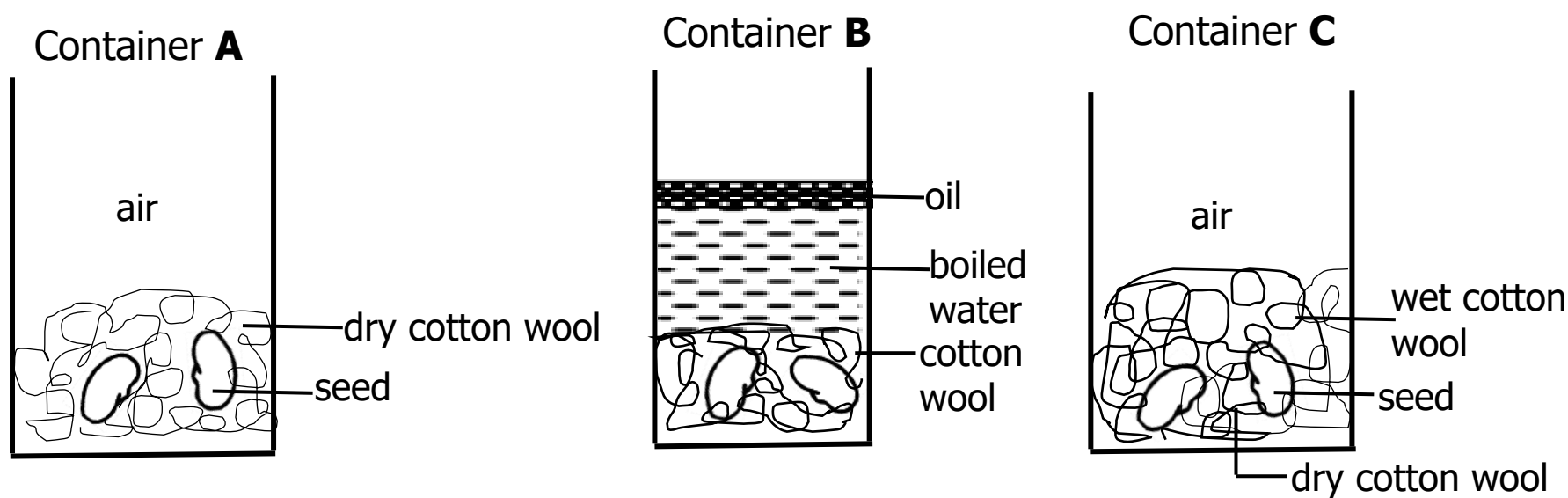
37. State any **one** factor that leads to breaking down of rocks in the environment.
-
38. Name the form of mechanical energy possessed by waterfalls.
-
39. How are crutches useful when giving first aid?
-
40. Give any **one** function of blood in the human body.
-
-

SECTION B: 60 MARKS

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

41. a) Name any **two** breeds of chicken kept for egg production.
- i)
- ii)
- b) State any **two** advantages of keeping poultry over goats.
- i)
- ii)
42. a) Mention any **two** examples of organic manure.
- i)
- ii)
- b) State any **two** methods of applying fertilizers in the garden.
- i)
- ii)

43. The diagram below shows an experiment about germination. Study it carefully and answer questions that follow.



- a) In which of the containers will the seeds germinate after some days?

- b) Why would the seeds in the container you have identified germinate?

- c) Give **one** effect of oil on the seeds in container **B**.

- d) State the role of the condition which is absent in container **A** during germination.



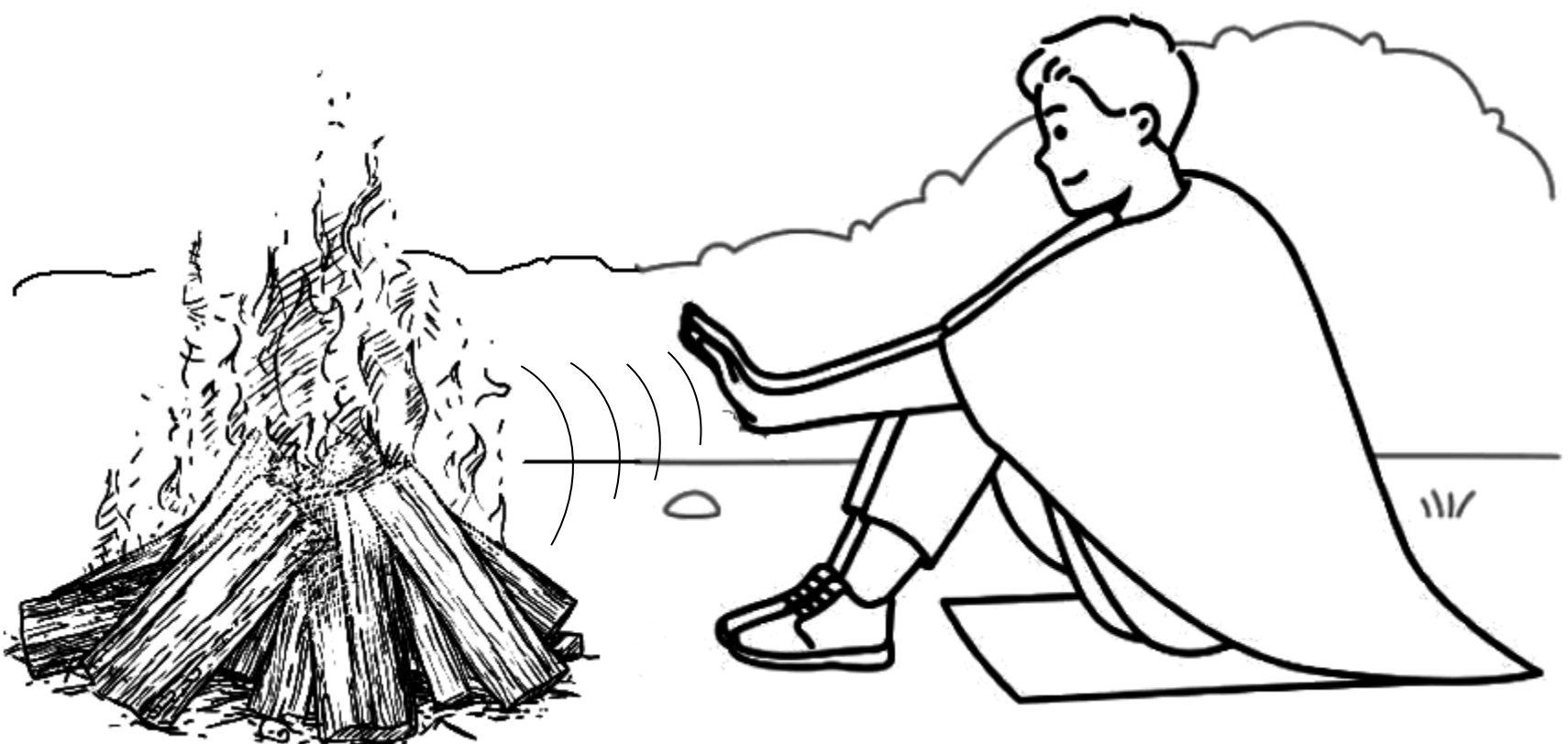
- 44.
- a) What type of change is burning?

 - b) State any **one** condition necessary for burning to take place.

 - c) Mention any **two** other changes that are similar to burning.
 - i)
 - ii)

45. a) To which class of arthropods do the following insects belong?
- i) Spider
- ii) housefly
- b) Give any **two** reasons why spiders and houseflies do not belong to the same class of arthropods.
- i)
- ii)

46. The diagram below shows a method of heat transfer. Study and use it to answer the questions that follow.



- a) Identify the method of heat transfer shown above.
-
- b) Name any **one** medium through which the method of heat transfer above takes place.
-
- c) Give any **two** ways in which the method of heat transfer above is important to people.
- i)
- ii)



47. In the table below, part **A** shows animals and part **B** shows their breathing organs.

Part A : Animals	Part B : Breathing organs
Toad	Gills
Cricket	Moist skin
Earthworm	Spiracles
Mud fish	lungs

Match correctly the animal in list **A** to its breathing organ in list **B**.

- i) Toad
- ii) Cricket
- iii) Earthworm
- iv) Mud fish

48. a) Which communicable disease attacks both rabbits and human beings?

b) State any **two** signs of the disease named in a) above.

- i)
- ii)

c) Give any **one** way of controlling the communicable disease named in a) above among rabbits.

49. a) Name the force that brings down all objects thrown up.

b) When a piece of polythene and a pencil are dropped from the same height, which one reaches the ground first?

c) Give a reason for your answer in b) above.

d) Why do some objects sink in water?

.....

50. The diagram below shows substances commonly used by some people in the community. Study and use it to answer the questions that follow.



a) Name the habit that involves the use of the substances shown above.

.....

b) Which body organ is greatly affected by the habit named in a) above?

.....

c) Mention any **one** disease that is worsened when a person uses the substances shown above.

.....

d) State any **one** danger of the habit named in a) above to a pregnant mother.

.....

51. a) In which way do people get tape worm infestations?

 b) What do tape worm feed on in the human body?

 c) State the function of each of the following parts to a tape worm;
 i) suckers
 ii) segments

52. a) Give the main function of the heart in the human body.

 b) To which body system does the heart belong?

 c) State any **two** health habits that keep the body system above in the normal working condition.
 i)
 ii)



53. a) Give any **two** similarities between bacteria and fungi.
 i)

 ii)

 b) State any **two** differences between bacteria and fungi.
 i)

 ii)

54. The diagram below shows a farm practice done in sheep keeping. Study and use it to answer the questions that follow.



- a) Identify the farm practice shown in the diagram above.
.....
- b) In which season is the above farm practice done?
.....
- c) Why is the farm practice done in the season you have given in (b) above?
.....
- d) Mention the product obtained from the farm practice shown in the diagram above.
.....

- 55.
- a) Which deficiency disease is known as starvation?
.....
 - b) State the major cause of the above deficiency disease.
.....
 - c) Give any **two** signs of the above deficiency disease.
 - i)
 - ii)

