



SURREKEY EXAMINATIONS BOARD
PRIMARY LEAVING SPECIAL MOCK EXAMINATION

2023

INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.	EMIS 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 **15** 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		

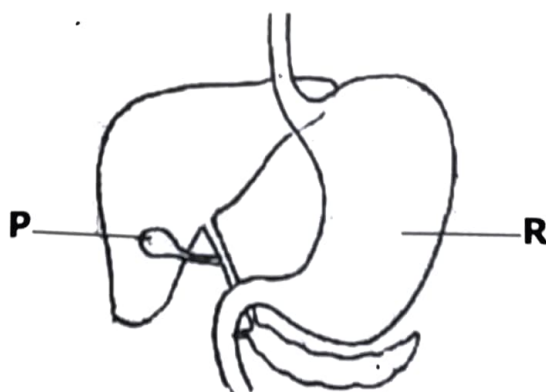


SECTION A: 40 MARKS

Questions **1** to **40** carry **one mark** each

1. Which type of soil retains water for a short time?
.....
2. Name the non diarrhoeal disease spread by the house fly to people's eyes.
.....
3. State any **one** way in which people care for animals at home.
.....
4. State **one** reason why it is important to shave hair on some parts of the body.
.....
5. Give any **one** example of biological change that causes growth.
.....

The diagram below shows a part of the digestive system of a human being.
Use it to answer questions **6** and **7**.



6. Name the digestive juice found in part labeled **P**.
.....
7. What happens to food when it reaches part **R**?
.....

8. Give any **one** way in which plants help to improve the health of people.

.....

9. State any **one** way of controlling the outbreak of dysentery in the community.

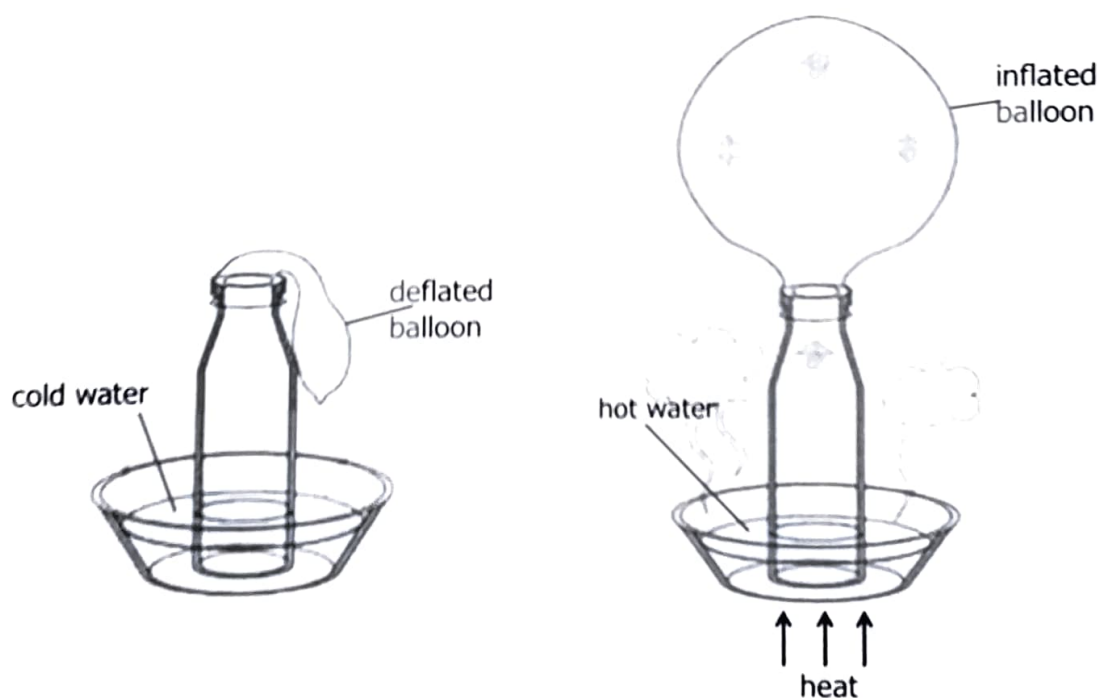
.....

10. How does a wheel barrow help to make work easier for people?

.....



The diagram below shows an experiment carried out by a P.6 class on properties of matter. Use it to answer questions **11** and **12**.



11. What does the experiment above show about heat?

.....

12. Which state of matter is being investigated in the experiment above?

.....

13. State the part on the VIP latrine that controls the breeding of blow flies.

.....

14. Why should soil be piled around the stems of an Irish potato during planting?

.....

15. How is a switch important to a cow?

.....

16. State any **one** way people can make a water source dirty in a community.

.....

17. To which group of musical instruments do shakers belong?

.....

18. State any **one** activity carried out to promote maternal and child health care in the community.

.....

19. Give a reason why the surface of a solar panel is painted black.

.....

20. Apart from ringworm, name any **one** other disease caused by fungus to human being.

.....



21. State the energy change that takes place in the dry cells when the circuit is complete.

.....

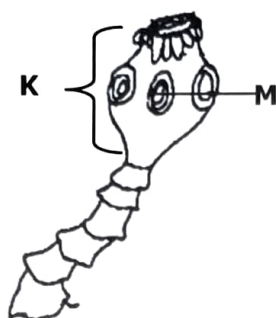
22. Which body system is affected by HIV/AIDS?

.....

23. Write down any **one** vertebrate that helps to control malaria at home.

.....

The diagram below shows an intestinal worm. Use it to answer questions **24** and **25**.



24. Name the part marked **K**.

.....

25. How is part marked **M** useful to the above intestinal worm?

.....

26. State any **one** natural cause of environmental degradation in an area.

.....

27. Give any **one** life skill that school going girls can develop to safe guard themselves against early pregnancies.

.....

28. Write down any **one** proper method of harvesting trees.

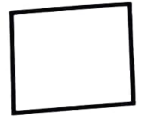
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29. Mention any **one** process caused by the action of bacteria in the environment.

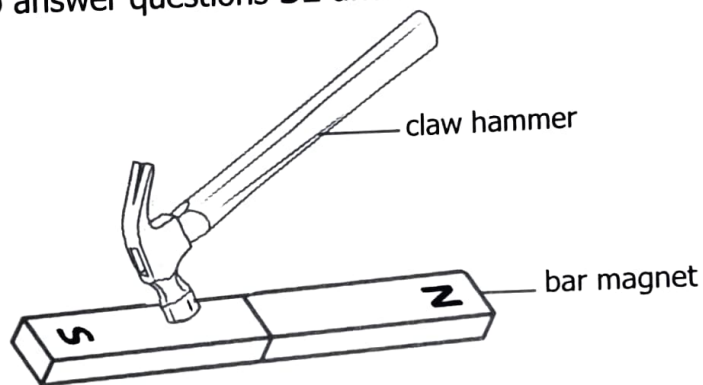
.....

30. Give any **one** danger of sharing the house with domestic animals.

.....



The diagram below shows a way in which a bar magnet is destroyed. Study and use it to answer questions **31** and **32**.



31. Identify the way of destroying the bar magnet shown in the diagram.

.....

32. How does the practice above affect the bar magnet?

.....

33. Give any **one** sign of ear canker in domestic rabbits.

.....

34. At what stage are the legumes suitable for making compost manure?

.....

35. Which method of making alcohol produces carbon dioxide?

.....

36. State any **one** way in which bee keeping is considered as an important business to bee keepers.

.....

37. Why does a ball point pen fail to write on a piece of paper on which cooking oil is poured?

.....

38. Name the part of the plant that is affected by leaching.

.....

39. Apart from getting natural immunity, state any **one** other way in which a baby benefits from breastmilk.

.....

40. State the method that is used to separate liquids with different densities.

.....



SECTION B: 60 MARKS

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

- (a) Name the type of accident that involves the following applications when giving first aid.

(i) Tying splints around the injured part

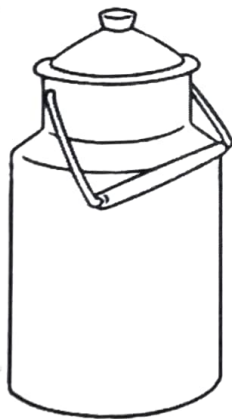
(ii) Applying mouth to mouth breathing

- (b) Give any **two** advantages of giving first aid to accident victims.

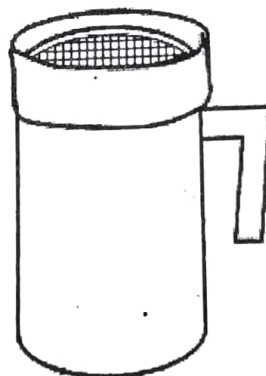
(i)

(ii)

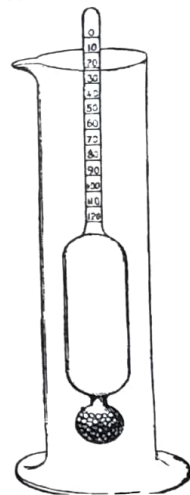
42. The diagram below shows equipment used during the production of milk on a cattle farm. Study and use it to answer the questions that follow.



A



B



C

- (a) Name the equipment marked **A**.

.....

- (b) Which disease in cows involves the use of equipment marked **B**?

.....

- (c) In which way is equipment marked **C** useful to a cattle farmer?

.....

- (d) Identify the type of cattle in which the equipment shown above are used.

.....

43. (a) Write down any **two** reasons why animals make sound.

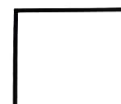
(i)

(ii)

- (b) State any **two** factors that affect the speed of sound in the environment.

(i)

(ii)



44. (a) Write down any **two** groups of essential drugs.

(i)

(ii)

- (b) Give any **one** characteristic of essential drugs.

.....

- (c) State any **one** condition under which essential drugs can be stored properly.

.....

45 (a) Write down any **two** causes of soil erosion in hilly areas.

(i)

(ii)

(b) How does terracing help to control soil erosion in hilly areas?

.....

(c) Apart from terracing, state any **one** other way of controlling soil erosion in hilly areas.

.....

. A patient was not feeling well. When the nurse measured her body temperature, it had increased by 3°C

(a) What was the body temperature of the patient?

.....

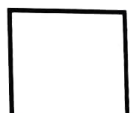
(b) Convert the body temperature above to Fahrenheit scale.

(02 Marks)

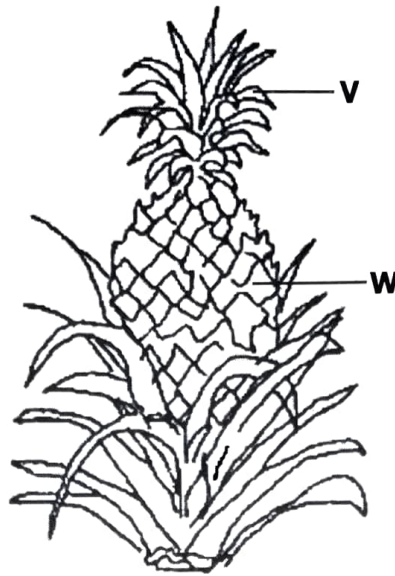
(c) State any **one** difference between heat and temperature.

.....

.....



47. The diagram below shows a fruit crop. Study and use it to answer the questions that follow.



- (a) Name the part marked **V**.

.....

- (b) State any **one** way in which part marked **W** is important to beverage industries.

.....

- (c) Give any **one** way in which the fruit crop above can be propagated.

.....

- (d) Name any **one** other crop that can be propagated in the same way as the fruit crop above.

.....

48. In the table below, part **A** shows deficiency diseases and part **B** has the body parts they affect.

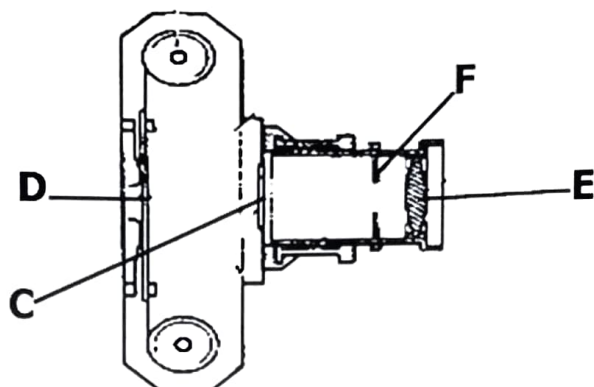
Part A	Part B
Rickets	the neck
Night blindness	the teeth
Scurvy	the limbs
Goitre	the eye

Use the body parts in part **B** of the table to match the terms below.

- (a) Rickets
- (b) Night blindness
- (c) Scurvy
- (d) Goitre
49. (a) In which part of the female reproductive system of humans does each of the following belong?
- (i) Ovulation
- (ii) Conception
- (b) State any **two** ways for caring for the reproductive organs.
- (i)
- (ii)



50. The diagram below shows an optical instrument. Study and use it to answer the questions that follow.



- (a) Name the parts marked **C** and **E**.
- (i) **C**
- (ii) **E**
- (b) Give the function of part marked **F** on the above optical instrument.
-
- (c) Which part of the human eye has the same function as part marked **D** on the optical instrument above?
-

51. The table below shows some common pests and their effects on plants. Complete it correctly.

CROP PEST	CROP AFFECTED	PART OF CROP AFFECTED
Banana weevils	Bananas	i)
ii)	Maize	Maize stalk, leaves, seeds
Bean weevils	iii)	Seeds, leaves
iv)	Ground nuts	Seeds, leaves.

52. (a) State any **one** condition that can lead to the outbreak of the Newcastle disease in poultry. Newcastle disease in poultry

.....

- (b) Mention any **two** signs and symptoms of the Newcastle disease in poultry.

(i)

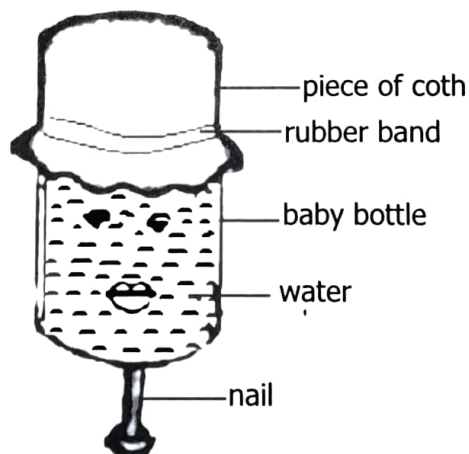
(ii)

- (c) Give any **one** way in which a poultry farmer can prevent the outbreak of Newcastle disease in poultry.

.....



53. The diagram below shows a model set up to demonstrate a certain body condition in a baby. Study and use it to answer the questions that follow.



- (a) Identify the condition demonstrated by the model shown above.

.....

- (b) What does each of the following represent on the model above?

(i) Baby bottle

(ii) Piece of cloth

- (c) State what happens to the piece of cloth when the nail is removed.

.....

54. (a) Write down any **two** examples of swimming birds in the environment.

(i)

(ii)

- (b) State the importance of the following features to swimming birds;

- (i) spoon shaped beak

.....

- (ii) layer of fats

.....

55. Given that the volume of the stone is 30cc. Arrange the equipment below by drawing to show the amount of water displaced by the stone.

(04 Marks)

