



KAKUMIRO DISTRICT EXAMINATION BOARD
PRIMARY SEVEN MOCK EXAMINATION
2023
INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.	EMIS No.	Personal No.

Candidate's Name

Candidate's Signature.....

EMIS No.

District Name

Read the following instructions carefully:

1. This paper has two sections A and B. section A has 40 questions and section B has 15 questions.
2. Answer all questions. All answers to both sections A and B must be written in the spaces provided.
3. All answers must be written using a blue or black ball point pen or ink. Any work written in pencil other than graphs and diagrams will not be marked.
4. Unnecessary changes in your work may lead to loss of marks.
5. Any handwriting that cannot easily be read 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		

Turn Over

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

1. Name the type of teeth used for biting food in the mouth.

.....

2. Which body sense organ is affected by burns and scalds?

.....

3. Why is it advisable to transplant seedlings in the evening?

.....

4. Mention the disease where rabbits have droopy ears with wounds.

.....

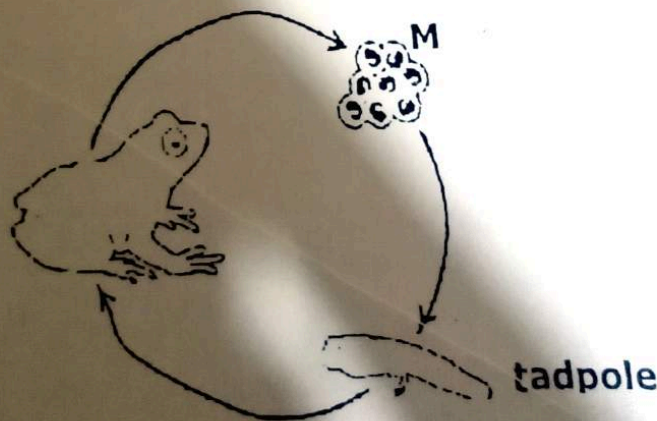
5. Which part in fish has a similar function to the ribcage in humans?

.....

6. State what happens to a pencil when dropped in a bucket full of water.

.....

The diagram below shows an amphibian. Use it to answer questions 7 and 8.



7. Identify the amphibian shown above.

.....

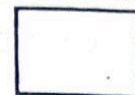
8. How are eggs at stage M fertilised?

.....

9. Why is blood transported from all body parts carried back to the heart?

.....

10. Give **one** use of the synovial fluids found in joints.



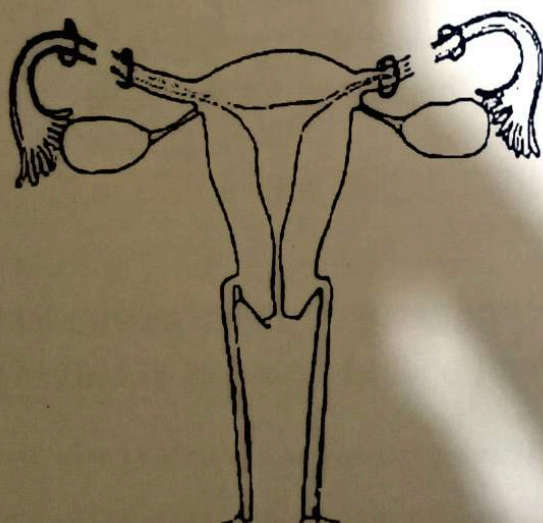
11. State **one** way of increasing the volume of sound from a big drum.

12. Why is carbon dioxide used to preserve soft drinks?

13. Give **one** importance of chlorophyll to plants.

14. Give any **one** way in which tar found in cigarettes is dangerous to human health.

The diagram below shows a birth control method in women. Use it to answer questions 15 and 16.



15. Identify the birth control method shown above.

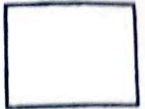
16. Give any **one** disadvantage of the shown method of birth control.

17. How is digestion an important process in the human body?

18. Give any **one** way poultry farmers prevent dampness in a poultry house.

19. How does the human skin help to reduce heat loss on a cold day?

20. Which immunisable childhood disease is prevented by drinking boiled milk?



21. Apart from water, name **one** other renewable resource used to generate electricity.

22. Give any **one** danger of refraction of light.

23. Mention the best method of preserving harvested tuber crops.

24. Which vector spreads malaria to people?

25. How is breastfeeding useful in the fight against diseases in babies?

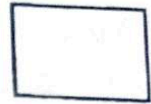
26. Which farm practice activity is done on goats and sheep to ease mating?

27. Name the method used to produce pure alcohol.

28. Mention any **one** way of managing natural changes in the environment.

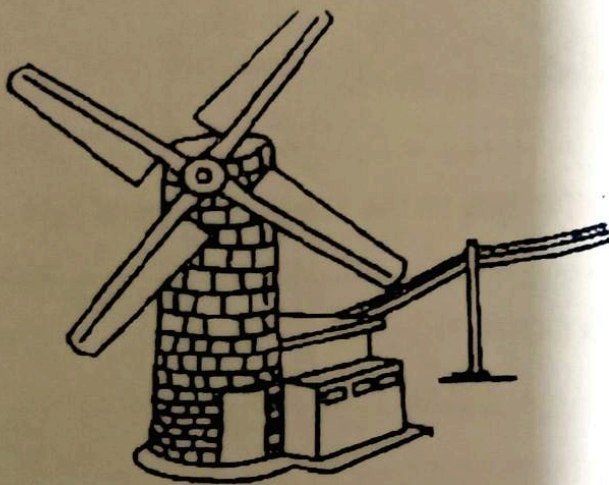
29. Which property of magnets is used by pilots to find direction?

which group of simple machines do windlasses belong?



are any **one** way plants and bees depend on each other in the environment.

Diagram below shows a device that uses wind. Use it to answer questions 32 and 33.



Identify the device shown in the diagram above.

How is the above device useful to people?

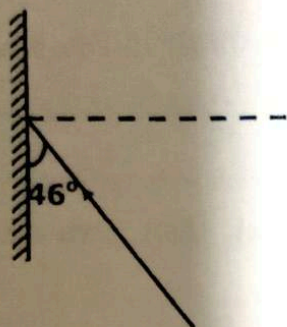
Identify **one** element of Primary Health Care (PHC) that helps to boost immunity of

Identify the element of weather used by farmers to winnow harvested crops.

Identify the first aid you would give to a person whose lower part of the leg has been bitten by a poisonous snake.

37. Write **one** way of increasing milk production in a dairy cow.

The diagram below shows reflection of light on a smooth surface. Use it to answer question 38 and 39.



38. Complete the diagram by drawing the reflected ray.

39. Mention **one** optical instrument that operates on the above principle of light.

40. State **one** use of an electric bulb in a circuit.



SECTION B: 60 MARKS

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

41. (a) Give the use of each of the following parts of a Ventilated Improved Pit (VIP) latrine.

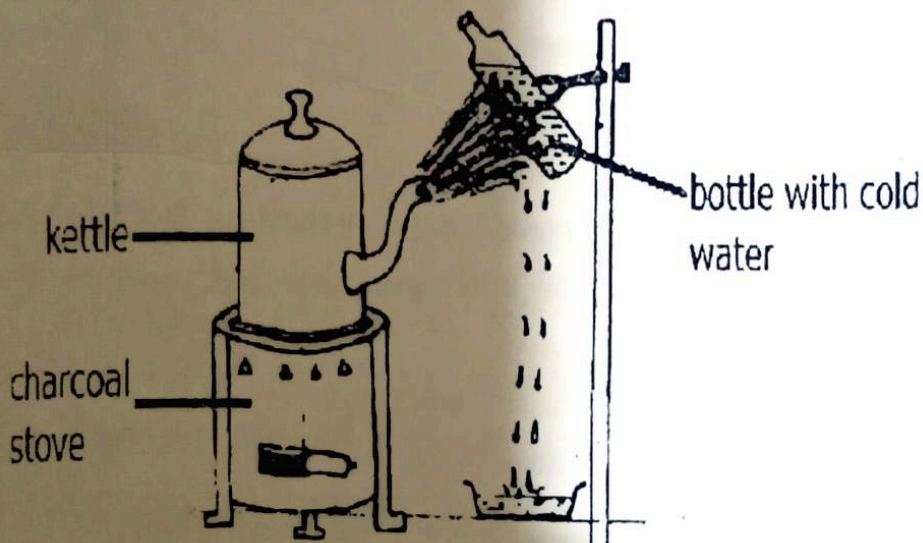
(i) Vent pipe

(iii) Screen

(b) Why is it recommended to construct a pit latrine **30 metres** away from a water source?

Give any **one** way of maintaining pit latrines in good working condition.

The diagram below shows an experiment conducted by a P.3 class about a water cycle. Study and use it to answer questions about it.



What do the following parts represent in nature?

kettle

charcoal stove

What is the role of the bottle with cold water?

Mention any **one** process taking place in the above experiment.

a) How is charcoal produced?

Name the renewable resource from which charcoal is made.

(c) State any **two** ways the use of charcoal for cooking can be reduced in our homes.

(i).....

(ii).....



44. (a) To which state of matter do the following belong?

(i) **Smoke:**

(ii) **Porridge:**

(b) Give any **two** effects of heat loss on matter.

(i).....

(ii).....

45. In the table below, part **A** shows tools used in administering first aid and part shows their uses. Match them correctly and write first aid tools in the space below.

Part A: FIRST AID TOOL	Part B: USE OF THE TOOL
Stretcher	For cutting bandages
Safety pin	For cleaning and disinfecting wounds.
Iodine	For carrying casualties who cannot walk
A pair of scissors	For fastening bandages

a)

For cutting bandages.

b)

For cleaning and disinfecting wounds.

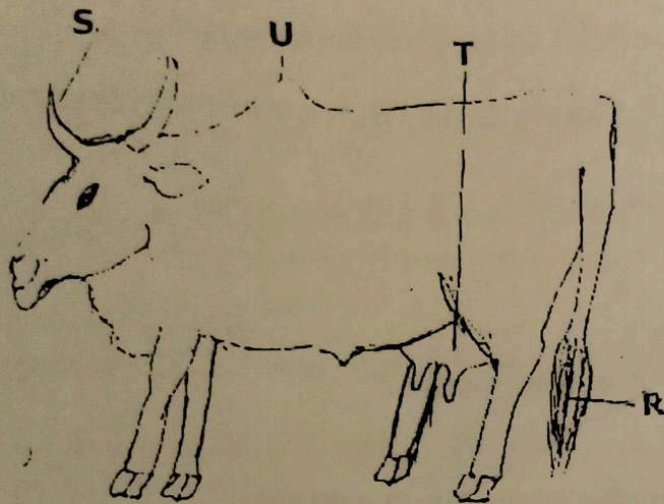
c)

For carrying casualties who cannot walk

d)

For fastening bandages

46. The diagram below shows the structure of a cow. Use it to answer the questions that follow.



a) Name part marked with letter **U**.

.....

c) Give **one** function of each of the following parts.

i) **R**:

ii) **S**:

c) Which of the parts is affected by mastitis disease?

.....



47. Given the following organisms: **ferns, mushrooms, conifers and toadstools**.

(a) Which of the **two** plants from the list above can be grouped together?

(i).....

(ii).....

(b) Give a reason to support your answer in (a) above.

.....

(c) How do conifers differ from the rest of the organisms in the list?

48. (a) Mention any **two** indicators of poor personal hygiene.

(i).....

(ii).....

(b) State any **one** use of each of the following items when promoting personal hygiene.

(i) Water:

(ii) Pumice:

49. (a) What type of change is rusting of iron metals?

(b) Mention **two** conditions necessary for rusting iron metals.

(i).....

(ii).....

(c) Give any **one** way of protecting metals from rusting.

.....

50. (a) Name the parts of the skeleton that protects the following parts.

(i) spinal cord

(ii) heart

(b) Name any **one** disorder that affects the human skeleton.

.....

(c) What is the importance of proper feeding to the human skeleton?

.....

Give the importance of each of the following components of Oral Rehydration
ns (**ORS**) to patients.

ir:

er:

Which condition in the body is prevented by the use of ORS?

.....

State any **one** way of preventing the contamination of ORS during preparation?

.....

(a) Apart from BCG, mention any **two** other types of vaccines.

.....

.....

Why is BCG vaccine administered to babies at birth?

.....

.....

Name the method of introducing BCG vaccine into the body.

.....



(a) Give the meaning of the following terms.

Incubation:

.....

ii) **Brooding:**

.....

b) Give any **two** advantages of artificial brooding in poultry management.

(i)

(ii)

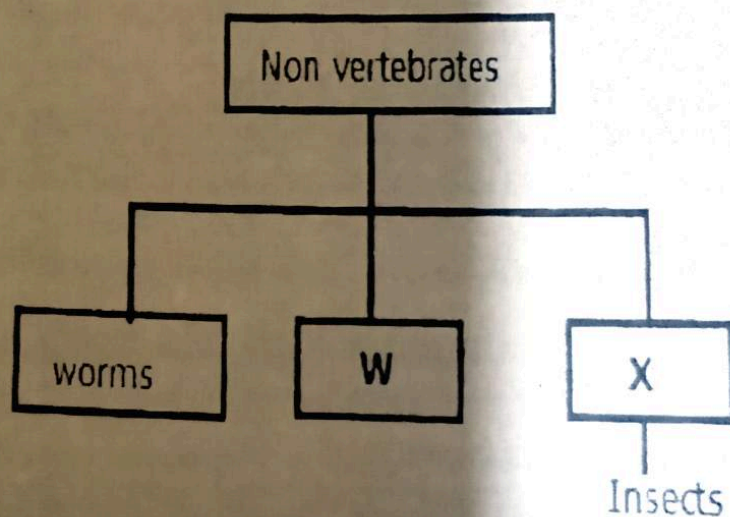
54. (a) Name the type of pulley that simplifies work by:

(i) Reducing effort needed by half:

(ii) Changing the direction of force:

(b) A man carried load of **500N** using effort of **250N** on a wheelbarrow. Find the mechanical advantage. (2 Marks)

55. The chart below shows a simple classification of non-vertebrates. Study and use it to answer questions that follow.



(a) Name the class of non-vertebrates marked **W** and **X**.

(i) **W**:

(ii) **X**:

(b) State any **one** similarity between worms and non-vertebrates marked **W**.
.....

(c) Give any **one** characteristic common to group of non-vertebrates marked **X**.
.....