

**RUBANDA DISTRICT EDUCATION COMMITTEE**  
**DEPARTMENT OF EDUCATION AND SPORTS**  
**PRIMARY MOCK EXAMINATIONS 2024**  
**INTEGRATED SCIENCE**

*Time Allowed: 2 hours 15 Minutes*

Emis No:						Personal No.		

**Candidate's Name:** .....

**Candidate's Signature:** .....

**Name of School:** .....

**Read the following instructions carefully.**

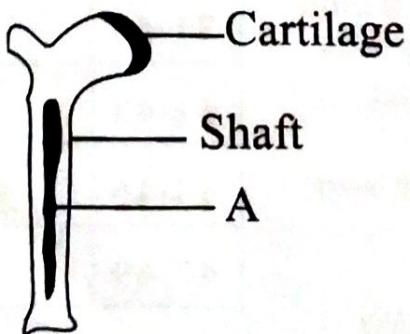
1. This paper has **two Sections A and B**.
2. Section A has **40 Questions 40 Marks** and Section B has **15 questions 60 marks**
3. Attempt **all** questions in **both Sections**. All answers in both sections must be written in the spaces provided.
4. All answers must be written using a **blue or black ball point pen or ink**. Any work written in a pencil will not be marked.
5. Unnecessary alteration of work will lead to loss of marks.
6. Any handwriting that cannot be easily read will lead to loss of marks
7. Do not fill anything in the table indicated: **For examiner's Use only** and boxes inside the question paper.

For Examiners' Use only		
Qn No.	Marks	Exrs' No
1-10		
11-20		
21-30		
31-40		
41-43		
44-46		
47-49		
50-52		
53-55		
<b>TOTAL</b>		

## **SECTION. A (40 marks)**

1. Which type of soil is used for making pavers?
2. Give any one danger of having too little fats in the body.
3. State any one reason why polio vaccine is given many times.
4. Give any one way of preventing mother to child transmission of HIV.
5. State the reason why the composition of exhaled oxygen is less than the inhaled oxygen.
6. State any one danger of tartar in oral and dental health care.
7. State how a six's thermometer is reset by the user.
8. state one advantage of using a movable pulley over a fixed pulley.
9. Which system of a flowering plant contains the axil part?

The diagram below shows a part of the skeletal system. Study and use it to answer questions 10 and 11.



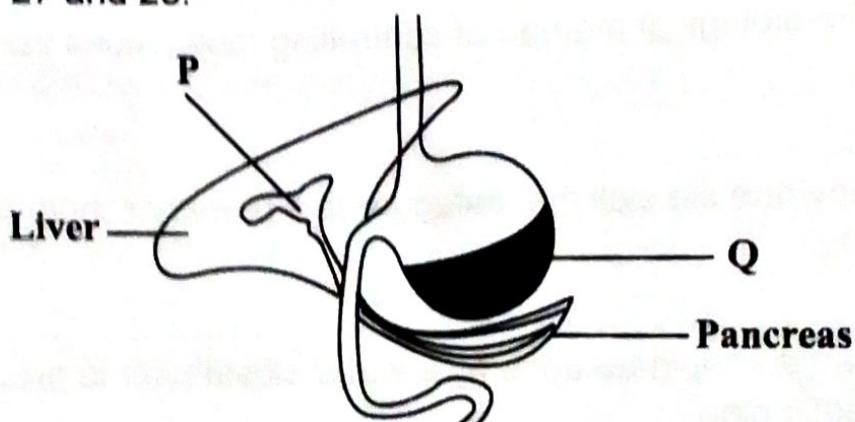
10. Name the substance labelled A.
11. State any one function of the substance labelled A.

12. Mention any one danger of clouds in the environment.
13. State what the arrows in the feeding relationship illustrated below show.  
Grass → Hen → Kite → Bacteria
14. Give the biological method of controlling mosquitoes from breeding in ponds.
15. Give any one life skill that safeguards a primary school child against smoking.
16. State what should be done by a water closet user to prevent blockage of a septic pipe.
17. Which practice in the steps of cleaning clothes removes lather?
18. Give any one factor that determines the weight of an object.
19. State one way how farmers can protect cattle from strong sunshine on a farm.
20. Give any one characteristic of tuber crop pests.
21. Mention any one danger of refraction in our daily life.
22. Which biological change in arthropods enables them to grow and increase in size?
23. State any one way of carrying out a health survey.
24. Identify the group of mammals where a tasmanian devil belong.

25. Mention any one way how humans minimize the depletion of mineral resources in the environment.

26. Give one importance of tweezers in providing first aid to a casualty.

The diagram below shows parts of the digestive system. Use it to answer 27 and 28.



27. State any one substance absorbed in part labelled Q.

28. Give the importance of the digestive juice stored in part labelled p.

29. State any one way of increasing the volume of blood in the human body.

30. Give any one way how farmers reduce the rate of transpiration among the plants.

31. State any one activity humans do to regulate their body temperature on a cold day.

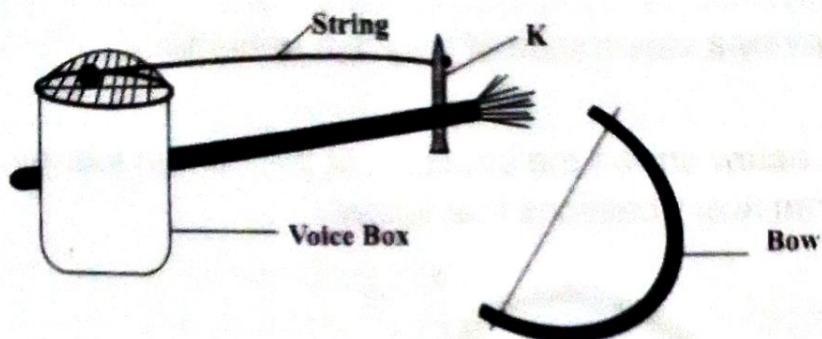
32. Give any one importance of steaming up in goat keeping.

33. State any one condition that prevents the breeding of bacteria.

34. Give any one good quality feature of a rabbit hutch.

35. "A P.7 candidate had a working torch but it later went off". What advice would you provide to the candidate to cause a torch to function?
36. Give any one way how rats are prevented from entering the granary.

The diagram below shows a tube fiddle. Study and use it to answer question 37 and 38.



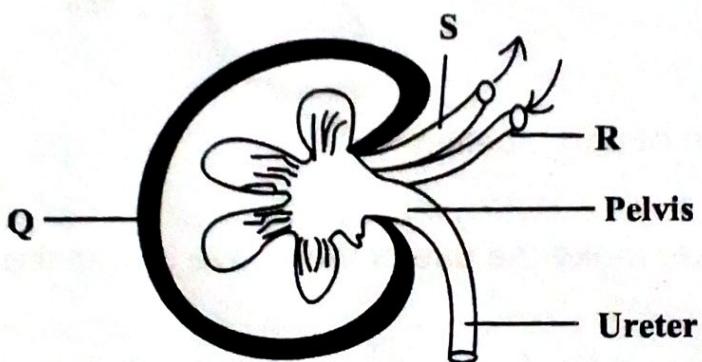
37. State the function of part labelled K.
38. How does the user make the use of the above bow in the diagram?
39. Give any one way poultry farmers use old litter obtained from a deep litter house.
40. Identify any one way through which school children promote health Education.

### SECTION. B (60 marks)

41. (a) State any one way how poison is introduced into the body.
- (b) Mention any two signs of poisoning in humans.
- (i) .....
- (ii) .....
- (c) Give one way of making a person who has taken solid poison to vomit.

42. (a) Which group of arthropods does a cray fish belong?
- (b) How is a cray fish similar to arachnids in terms of body division?
- (c) Mention any one organism that belongs to the same group of arthropods with cray fish.
- (d) State any one importance of cray fish to humans.

43. The diagram below shows the structure of the human kidney. Study and use it to answer questions that follow.



- (a) Name the type of blood carried through blood vessels labelled R and S.
- (i) R .....  
(ii) S .....
- (b) State the importance of the process that takes place in part labelled Q.

- (b) Give any one way of maintaining the proper working of the above organ.

44. (a) Identify any one primary sex change that occurs in both adolescent boys and girls.

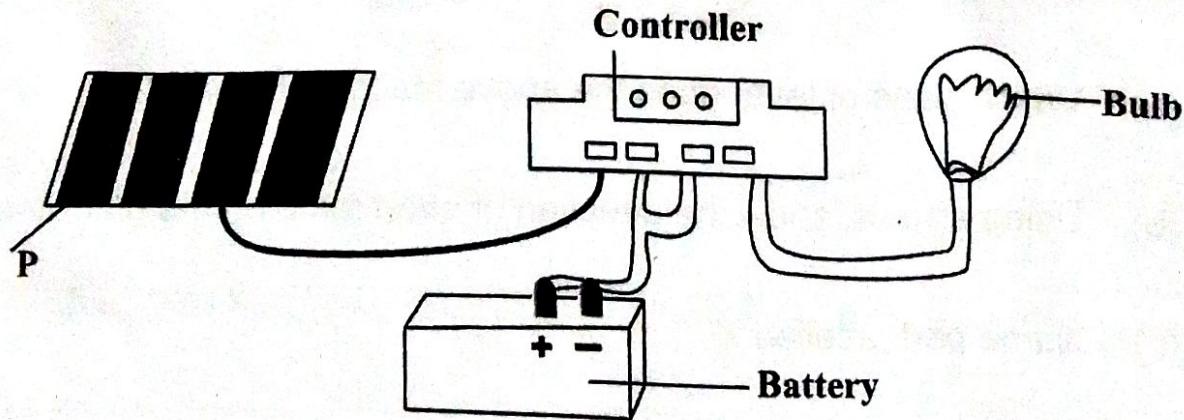
- (b) State any one problem boys and girls commonly face when they reach adolescent stage.
- .....
- (c) Mention any two things adolescent boys and girls should do to promote reproductive health.
- (i) .....
- (ii) .....
45. A primary seven candidate was provided with the following materials.

- Soil sample
- Lid
- Firewood
- Match box
- Saucepan

Explain the four steps a candidate went through to find out that soil contains water.

- (i) .....
- .....
- (ii) .....
- .....
- (iii) .....
- .....
- (iv) .....
- .....

46. The diagram below shows an energy extraction system. Study and use it carefully to answer questions that follow.



- (a) Name the source of energy extracted by the above equipment.
- (b) Give the function of the following parts in the production of energy.
- (i) Part P
- (ii) Battery
- (c) State one way how the above resource use is friendly to the environment.
47. (a) A child has weak, soft and bow shaped bones. State the deficiency disease a child is suffering from.
- (b) State any two ways of preventing the deficiency disease in (a)above.
- (i) .....
- (ii) .....
- (c) Give any one other food deficiency disease in humans:
48. The diagram below shows a pair of scissors. Study and use it to answer questions that follow.
- 
- (a) Which class of lever does the above machine belong?
- (b) Using arrows, show the direction of effort force on the diagram.
- (c) Name part labelled Z

(d) State any one way of improving the efficiency of such a machine.

49. (a) State any one reason why humans carry out these activities before milking.
- (i) Washing hands
- (ii) Tying the cow's hind legs.
- (b) Give any one way of stimulating milk let down in the process of milking.
- (c) State any one way of improving on milk productivity in local breeds of cattle.

50. The table below shows the data collected from five schools during school health inspection by DHO and the team. Study and use it carefully to answer questions.

School	Sanitary facilities checked			
	Clean latrine	Composit pit	Tippy taps	Safe drinking water
P	✓	✓	✓	✓
Q	✓	✓	X	X
R	✓	✓	✓	X
S	✓	✓	X	X
T	✓	X	X	X

#### KEY

✓ - Item found at school.

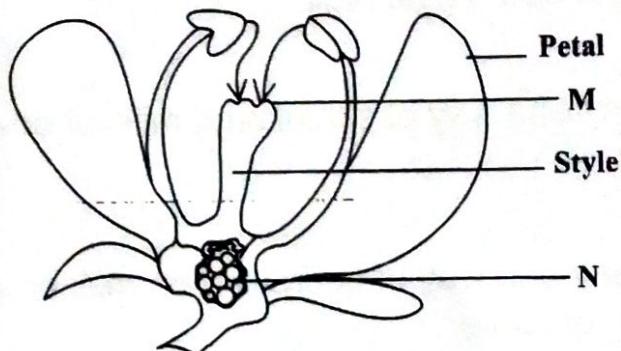
X - Item missing.

- (a) Identify the sanitary facility that was found in all schools.
- (b) Mention any one sanitary component of the tippy taps in the table.

(c) Give any one reason why schools Q, S and T are likely to have diarrhoeal diseases.

(d) State any one piece of advice you would give to schools Q, R, S and T to control diarrhoeal diseases.

51. The diagram below shows parts of a flower. Study and use it to answer questions that follow.



(a) State the processes that take place in parts labelled M and N.

(i) M .....

(ii) N .....

(b) State one way how part labelled M is best suited to its function.

(c) Give the importance of the process that takes place at part labelled M to crop farmers.

52. The table below shows diseases and the way they are spread. Study and match correctly.

Disease	How the disease is spread
Bubonic plague	contamination of food by cockroach
Dysentery	burrowing into the skin by itchmites
Lyme disease	Bites from rat fleas
Scabies	Bites from ticks

- (i) Bubonic plague:.....
- (ii) Dysentery: .....
- (iii) Lyme disease: .....
- (iv) Scabies: .....

53. The following are steps a mother went through to obtain salt locally from dry banana peelings. They are arranged in a wrong order. Re-write them in correct order.

Wrong order.

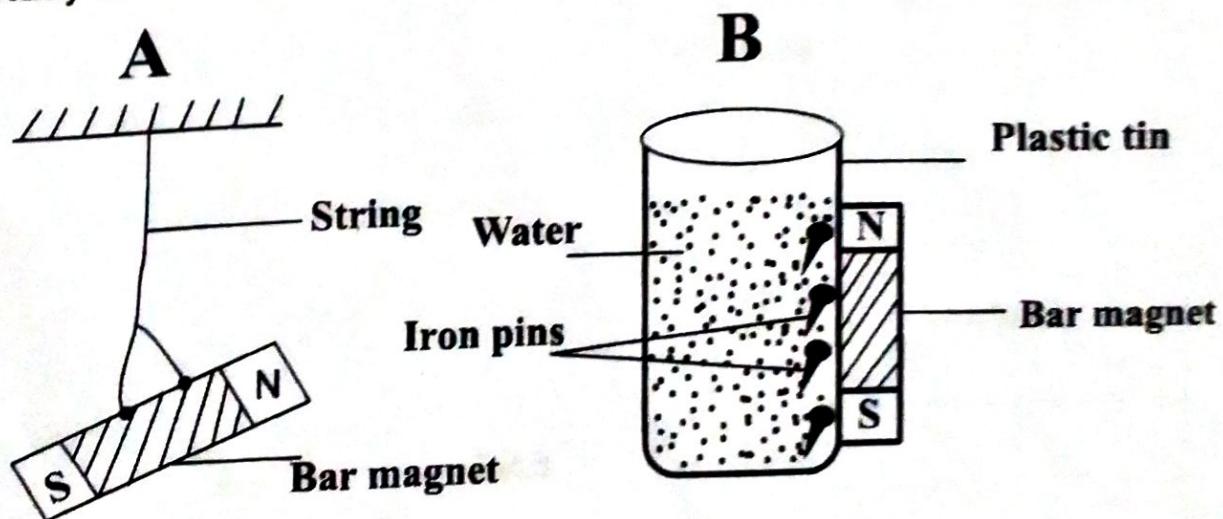
Steps:

- I. Filter the mixture to separate residues from the solution.
- II. Burn banana peelings into ash.
- III. Evaporate the solution to dryness and observe salt crystals on the bottom of the container.
- IV. Pour water into the banana peelings ash put in a container.

Correct order.

- I. ....
- II. ....
- III. ....
- IV. ....

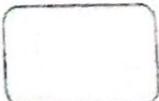
54. The diagrams below show the illustrations of the properties of magnets. Study and use them to answer questions that follow.



- (a) Identify the property of magnet illustrated in diagrams A and B.

- (i) A: ....
- (ii) B: ....

- (b) Give the importance of the properties of magnets illustrated in diagrams A and B.
- (i) A: .....
- (ii) B: .....
55. (a) Which eye defect makes an individual to only see clearly distant objects?  
.....
- (b) Mention two causes of the eye defect in (a) above.
- (i) .....
- (ii) .....
- (c) Give any one way of correcting the eye defect in (a) above.  
.....



**END.**