



THE REPUBLIC OF UGANDA
KUMI MUNICIPAL COUNCIL

PLE MOCK EXAMINATION 2024
INTEGRATED SCIENCE

Time Allowed: 2 hours 15 minutes

Index No.:

Random No.	Personal No.

Candidate's Name:

Candidate's Signature:

School:

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.
The paper has **10 printed pages**.
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 drawings
will **not** be marked.
4. Unnecessary **changes** in your work and
handwriting that cannot be read easily may
lead to **loss of marks**.
5. 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		

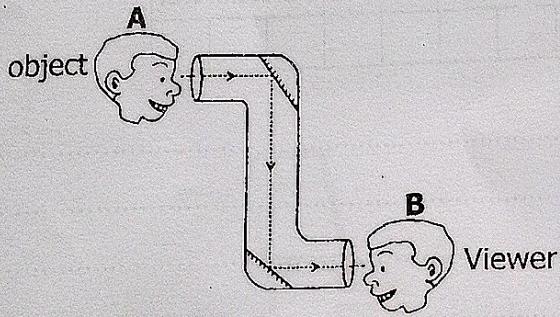
Turn Over

SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each.

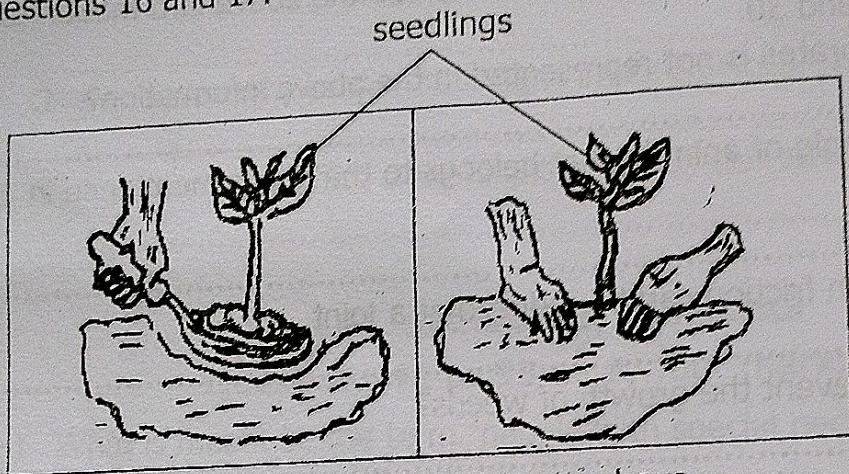
1. What good health habit should be practiced after visiting a latrine or toilet?
2. Name the system of a flowering plant that grows above the ground.
3. State a reason why children should be fed on more protein rich foods than adults.
4. State any one practice that can help prevent indigestion among school children.
5. How do flowering plants benefit bees?

The diagram below shows an optical instrument. Study and use it to answer questions 6 and 7.



6. Identify the optical instrument drawn above.
7. How is a person at B able to see object A?
8. State the difference in function between the red blood cells and white blood cells.
9. How is a splint useful in giving First Aid?
10. In which way is timely weeding a good method of controlling crop pests?
11. State the structures in a cockroach that work like lungs in a human.
12. What piece of advice can you give to smokers to help them stop their habits?

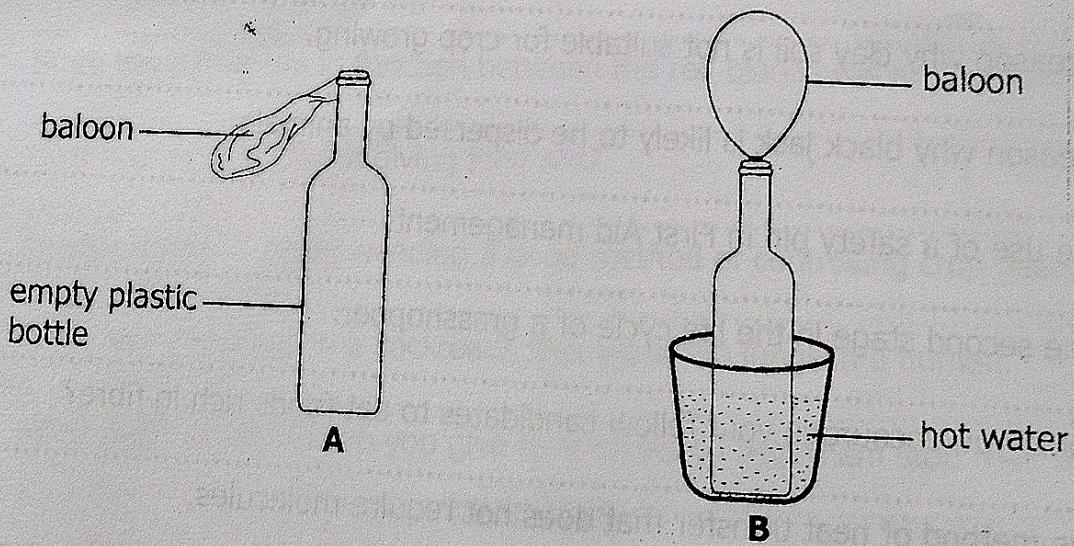
13. Give any **one** example of reversible change in the environment.
14. How does burning rubbish control breeding of houseflies in our compound?
15. Apart from curing diseases, state any **one** characteristic of essential drugs.
- The diagram below shows a crop growing practice. Study and use it to answer questions 16 and 17.



16. Identify the crop growing practice shown above.
17. Give a reason why the above practice should be done in the evening.
18. Give any **one** way in which P.7 pupils can prevent roundworm infection.
19. State a reason why clay soil is not suitable for crop growing.
20. Give a reason why black jack is likely to be dispersed by animals.
21. State the use of a safety pin in First Aid management.
22. Name the second stage in the life cycle of a grasshopper.
23. Why would you encourage your fellow candidates to eat foods rich in fibre?
24. State the method of heat transfer that does not require molecules.

25. State any **one** problem of early pregnancy to a school girl below 18 years.
26. Mention the artificial method of boosting immunity against tuberculosis in babies.
27. Give a reason for keeping covid victims away from other people.
28. In which way is health education important in controlling population growth?
- Given the animals: frogs, rats, tilapia and crows. Use the above information to answer questions 29 and 30.
29. Which group of vertebrates is not represented in the above information?
30. Write down **one** example of animals that belongs to the group mentioned in 29 above.
31. State **one** way in which friction can be reduced at a joint.
32. How does mulching prevent the growth of weeds?
33. State any **one** characteristic of images formed in a pinhole camera.

The diagram below shows a balloon which was tightly fixed on top of an empty plastic bottle as shown in **A**. The bottle was then placed in the hot water as shown in **B**. Study it carefully and use it to answer questions 34 and 35.



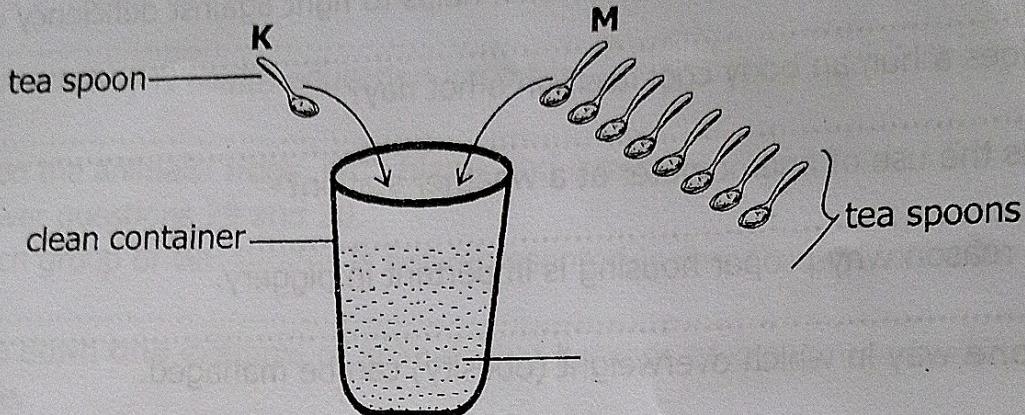
34. Why did the balloon increase in size as seen in B?
.....
35. What does the experiment prove about heat?
.....
36. State **one** way in which the human skin helps to fight against deficiency diseases.
.....
37. How does a human body cool itself on a hot day?
.....
38. What is the use of anemometer at a weather station?
.....
39. Give a reason why proper housing is important in piggery.
.....
40. State **one** way in which overweight (obesity) can be managed.
.....

SECTION B: 60 MARKS

Questions 41 to 55 carry four marks each.

41. a) What is meant by the term "people with special needs"?
.....
.....
- b) Apart from the elderly, give **two** groups of people with special needs in the community.
i)
ii)
- c) State any **one** way of caring for the elderly.
.....
42. a) Give any **two** ways in which an umbilical cord is useful to a baby in the womb.
i)
ii)
- b) State any **two** things a pregnant woman must do to promote the health of her baby in the womb.
i)
ii)

43. P.4 class in Etam Primary School prepared oral rehydration solution locally. They were provided with a plastic tumpeco mug, salt, sugar, drinking water, tea spoon and a clean container. After washing hands, they made measurements as shown below.



- a) Name the substance measured using teaspoons **M** and **K**.
- i) M
- ii) K
- b) After how long does the prepared solution take to expire?
.....
- c) Which condition of the body is prevented using the above solution?
.....
44. a) What term is used to describe "resources that provide useful energy and cannot be naturally replaced"?
.....
- b) Give any **two** examples of such resources.
i)
ii)
- c) State any **one** way of conserving resources named in (b) above.
.....
45. a) State the importance of toothpaste in cleaning teeth.
.....
- b) Mention any **one** part of the teeth brushed when cleaning them.
.....
- c) Apart from toothpaste, name any **two** materials used for cleaning teeth.
i)
ii)

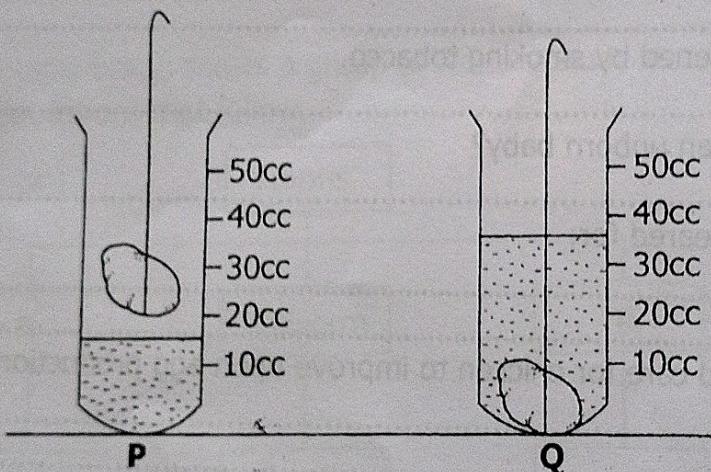
46. The table below shows parts of the simple circuit in **A** and their function in **B**.

A: Part of the simple circuit	B: Function
Dry cells	breaks or completes the circuit.
Copper wire	produce electricity.
Bulb	breaks the circuit in case of high voltage.
Fuse	conducts electricity. produces light and heat.

Select the correct function of each part of the circuit in part B and write in the spaces provided below.

- a) Dry cells
- b) Copper wire
- c) Bulb
- d) Fuse

47. The diagram below shows an Irish potato being lowered into a measuring cylinder containing water. The level of water rose to that shown in a cylinder **Q**. Use this information to answer the questions that follow.



- a) Work out the volume of an Irish potato. (2 marks)

(2 marks)

- b) if the mass of an Irish potato is 60g. Calculate its density.

48. a) Give the difference between passive smoking and active smoking.

.....
.....
.....

- b) Write down any **one** dangerous substance found in tobacco.

- c) Mention **one** disease worsened by smoking tobacco.

- d) How does smoking affect an unborn baby?

49. a) Give the type of chicken reared for:

i) meat.
ii) eggs.

- b) State **two** ways you would care for chicken to improve upon egg production.

i)
ii)

50. a) Name **one** practice which increases the spread of bilharziasis.

- b) Which vector spreads bilharziasis?

- c) Give any **two** ways of preventing the spread of bilharziasis.

i)
ii)

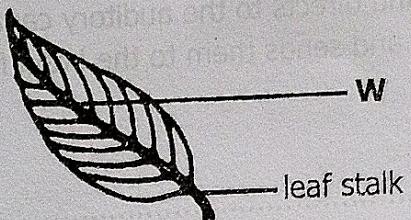
51. a) State any **two** natural causes of food shortage in our community.

i)
ii)

b) State any **two** ways in which too much rain lowers food production in a community.

- i)
ii)

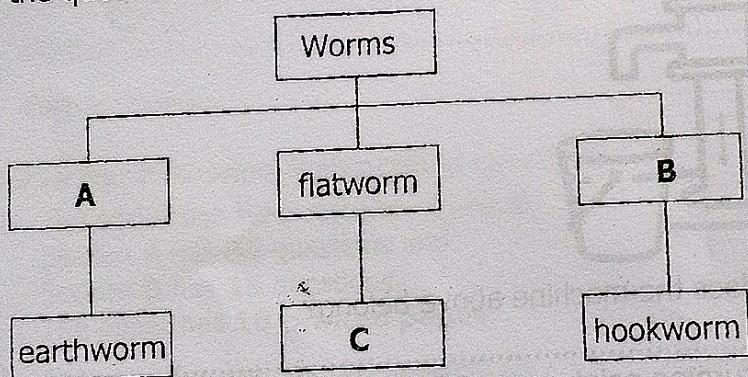
52. The diagram below is of a leaf. Study and use it to answer the questions that follow.



- a) Name part labelled **W**.
b) Using line segment with letter **P**, label the lamina.
c) Apart from gaseous exchange, state any **two** uses of leaves to a plant.

- i)
ii)

53. The table below shows a group of worms. Study it carefully and use it to answer the questions that follow.



a) Name the group of worms shown by the following letters:

- i) **A**
ii) **B**

b) Give any **one** worm that belongs to the box labelled **C**.

c) State any **one** way in which worms are similar to molluscs.

54. The sentences below describe the processes of hearing in their wrong order.
Rearrange them in correct order to describe how we hear.

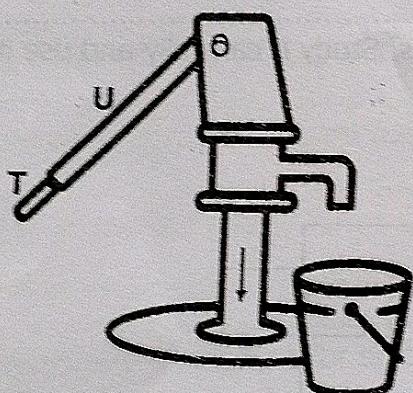
Wrong order:

- The eardrum transmits sound vibrations to the middle ear.
- The cochlea changes the vibrations into nerve impulses.
- The pinna collects sound waves from the air and directs to the auditory canal.
- The auditory nerve picks the sound messages and sends them to the brain for interpretation.

Correct order:

-
-
-
-

55. The diagram below shows a borehole. Study and use it to answer the questions that follow.



- To which class of levers does the machine above belong?
.....
- Using letter W, label the turning point on the above diagram.
.....
- Which of the two positions marked T and U requires less effort to overcome the load?
.....
- Give a reason to support your answer in (c) above.
.....
.....

END