



KAMPALA CITY EXAMINATIONS BOARD

"The city of success"

2024

INTERGRATED SCIENCE

Time allowed: 2 hours 15 minutes

RANDOM NO.						Personal No.		

**CITY
EXAMS**

Pupil's Name:

Pupil's Signature:

District Name:

Read the following instructions carefully:

1. Do not forget to write your **school** or **district name** anywhere 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 altogether.
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 easily 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'SNO.
1–10		
11–18		
19–26		
27–35		
36–41		
42–44		
45–47		
48–49		
52–55		
TOTAL		

SECTION A: 40 MARKS

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

1. Write any **one** domestic animal that keeps security.

.....

2. What is electricity?

.....

3. Name the type of venation possessed by banana leaves.

.....

4. Give **one** importance of white egrets to a cattle farmer.

.....

5. When is a P.7 girl said to be vulnerable?

.....

6. What is soil profile?

.....

7. State, the importance of a dump proof coarse found on a living house.

.....

8. In the space below, draw a tooth characterized by being sharp and flat.



9. Give the importance of the fluid found in organisms with hydrostatic skeleton.

.....

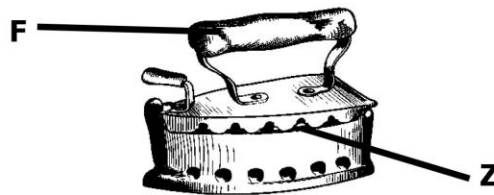
10. Mention, **one** protozoan disease that attacks poultry, apart from coccidiosis.



11. Name the characteristic of insect pollinated flowers, that enables them to be pollinated at night.

12. How can a school health committee tell whether the child was immunized against measles without referring to the child health card?

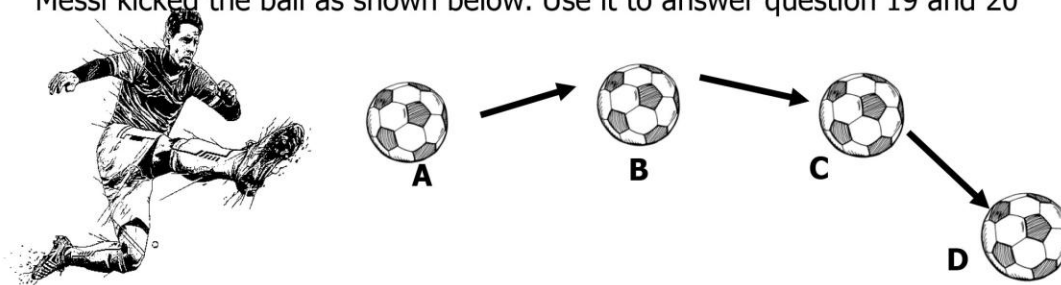
The diagram below, shows an iron box. Use it to respond to question 13 and 14.



13. Give **one** material from which part **F** can be made from.
14. Identify the part of head teacher's office that works in a similar way as part **Z**
15. What is the basic unit for measuring length?
16. Which sexually transmitted disease causes blindness in newly born babies?
17. Which type of change maintains the properties of the original substance?
18. Give **one** sign of a simple fracture.

Turn over

Messi kicked the ball as shown below. Use it to answer question 19 and 20



19. Name the type of energy possessed by the ball at position B.
.....
20. Give a reason to support your answer.
..... ☐
21. Which animal product is a raw material in tannery?
.....
22. In which condition of the body is tepid sponging recommended to an individual?
.....
23. Name the vector that spreads the disease that has been immunised in Uganda of recent.
.....
24. To which class of levers does a fishing rod belong?
.....
25. Which layer of the skin contains the pigment that is affected by bleaching using chemicals?
.....
26. Give a reason why mechanical advantage of any machine has no units.
.....

27. Convert 30°C to degrees Fahrenheit.

28. How is pulmonary artery similar to veins?

.....

29. Why does a person become cold immediately after dying?

.....

30. Name the weapon used by bees and wasps to defend themselves from any attack.

.....

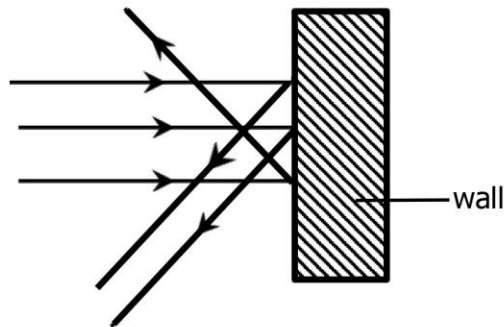
31. Katongole was given a paracetamol tablets in a packet written on 2×3.
How often does Katongale take the tablets?

.....

32. Write the groups of simple machines compared to the incisor teeth in humans

.....

33. Complete the diagram to show the effect of light on the object below



34. Give the effect of sickle cell anemia on a red blood cell.

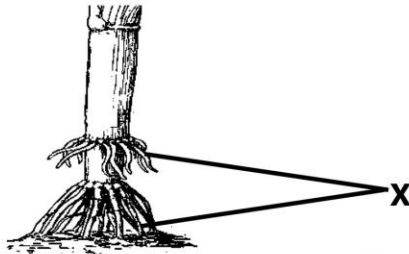
.....

35. Having wings is an adaptation of birds to fly. Why is it that that adaptation is not favouring birds like emu and ostrich?

.....

36. To, which group of arthropods do millipedes and centipedes belong?
.....
37. What does letter **I** stand for in **PIASCY**?
.....
38. Why does a leaf float on water and a stone sink?
.....

The diagram below shows roots of a certain plant. Use it to answer question 39.



39. When do the above roots develop on a plant?
.....
40. (a) Mention **one** use of electricity.
.....

SECTION B: 60 MARKS



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

41. (b) Give **one** reason why transplanting is done in the evening.
.....
- (c) Why is a trowel a suitable garden tool for transplanting seedlings from a nursery bed?
.....
- (c)What is "**hardening off**" in crop growing?
.....
- (d) Why is hardening off an important crop growing practice?
.....

42. (a) What are poultry vices?

.....

(b) Give **two** examples of poultry vices.

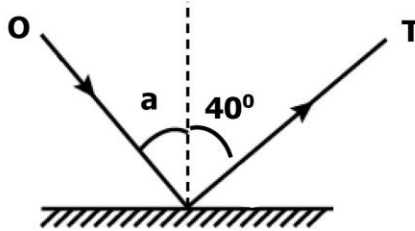
(i).....

(ii).....

(c) How does debeaking help to control poultry vices?

.....

43. The diagram below is of a plane mirror, Use it to answer questions that follow



(a) Name the ray marked **OP**.

.....

(b) Find the value of **a**

.....

(c) Give **two** characteristics of images formed by plane mirrors.

(i).....

(ii).....



44. The steps below show how to harvest honey, but they are in wrong order.

Use them to form a correct order

- a. cut the honey combs
- b. puff smoke into the hive
- c. open the hive
- d. lower the hive

Correct order

a.

b.

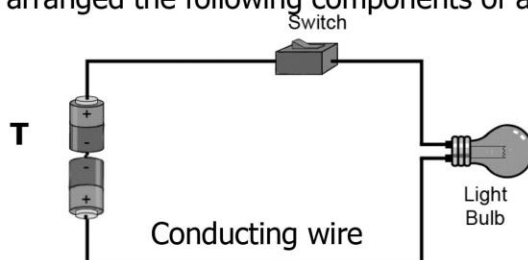
c.

- d.
45. Mention the harmful wastes removed by the following organs from the body.
- (a) Lungs
- (b) Kidneys
- (c) Skin
- (d) Liver
46. The table below is of invertebrates. Use it to answer questions that follow.

Group A	Group B	Group C
Spiders	Housefly	Crabs
Tick	Cockroach	Lobster
Scorpions	tsetse fly	Sand hopper

- (a) How are the above invertebrates similar?
.....
- (b) Which of the above invertebrates is viviparous?
.....
- (c) In which way is the breathing of a spider different from that of a crab?
.....
- (d) Why are organisms in group B regarded as vectors?
.....

47. Nakyanzi arranged the following components of a simple circuit as follows



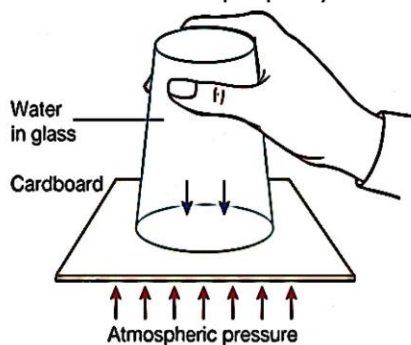
- (a) Name component **T**.
- (b) Give a reason why the bulb did not light.

.....
(c) What, advice can you give to Nakyanzi so that the bulb gives light?
.....

(d) How does coiling of the filament affect resistance in the bulb?
.....

48. Rebecca weighing 50N sits 20m from the pivot of a seesaw. How far from the fulcrum should Mayanja whose weight is 40N sit in order to balance with Rebecca?

49. The diagram below shows a property of air use it to answer questions that follow.



(a) Name the property of air illustrated above.
.....

(b) Why didn't the cardboard fall off?
.....

(c) How useful is the above property to:

(i) Crop farmers.....

(ii) health workers



- (a) Name the natural process in the environment that is shown in the above experiment

 (b) Name the physical process taking place at **Z**.

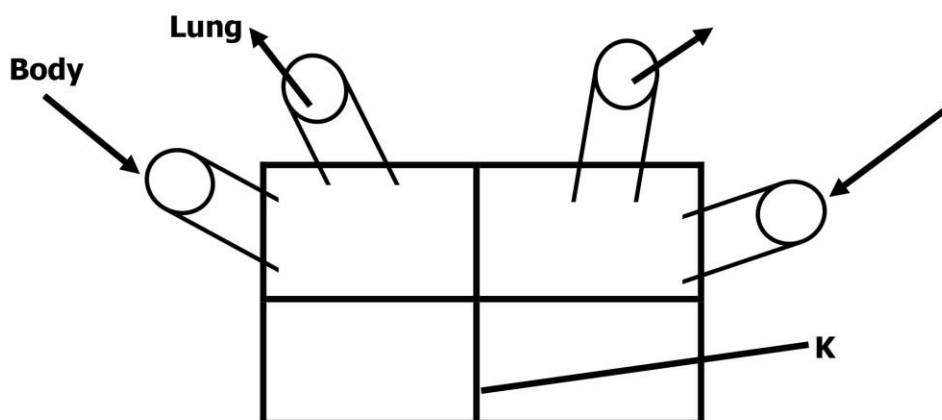
 (c) Give a reason why it is better to use a clay charcoal stove instead of a metallic one.

 (d) What is the importance of cold water in the bowl?
 ☐

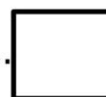
53. Study the table below and complete it correctly.

VECTOR	DISEASE	CAUSE
Housefly	Trachoma	
Female Anopheles mosquito		Plasmodium
	Sleeping sickness	Trypanosoma
Cockroach		Salmonella typhi

54. The diagram below shows a model of a certain body organ. Use it to answer questions that follow.



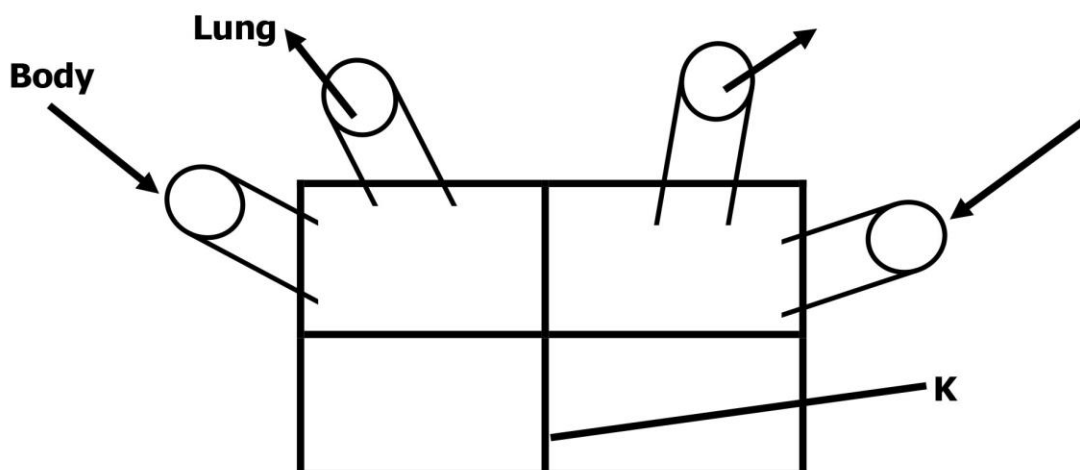
- (a) Name the natural process in the environment that is shown in the above experiment
-
- (b) Name the physical process taking place at **Z**.
-
- (c) Give a reason why it is better to use a clay charcoal stove instead of a metallic one.
-
- (d) What is the importance of cold water in the bowl?
-



53. Study the table below and complete it correctly.

VECTOR	DISEASE	CAUSE
Housefly	Trachoma	
Female Anopheles mosquito		Plasmodium
	Sleeping sickness	Trypanosoma
Cockroach		Salmonella typhi

54. The diagram below shows a model of a certain body organ. Use it to answer questions that follow.



(a) To which body system does the above organ belong?

.....

(b) Name the blood vessel marked B.

.....

(c) Give the importance of part marked K.

.....

(d) Mention **one** activity that keep the above organ in proper working conditions.

.....

55. (a) What is sound?

.....

.....

(b) Name the part of the ear that is useful to a deaf.

.....

(c) Give a reason why the above part is useful to the deaf.

.....

(d) Apart from the reason given above, mention the other function of the ear to other organism.

.....



END