

# KOLFRAM EDUCATIONAL SERVICES KAMPALA

## NATIONAL PRIMARY LEAVING MOCK EXAMINATION

2023

### INTEGRATED SCIENCE

Time allowed: 2 hours 15 minutes



Index Number:

Random Number						Personal Number		

Candidate's Name: .....

Candidate's Signature: .....

School SPRN ID: .....

District ID:.....

**DO NOT OPEN THIS BOOKLET UNLESS YOU ARE TOLD TO DO SO**

**Read and follow these instructions carefully:**

1. Do not write your school or district name anywhere on this paper.
2. 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.
3. Answer all questions. **All** answers to 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 answer written in pencils other than on graphs and diagrams will not be marked.
5. No calculators or electronic pens are allowed in the examination room.
6. Unnecessary changes in your work and handwriting that cannot easily be read may lead to **loss of marks**.
7. Do not fill anything in the table indicated: "**FOR EXAMINERS' USE ONLY**" and boxes inside the question paper.

#### FOR EXAMINERS USE ONLY

QN. NUMBER	MARKS	EXAMINER'S INITIAL
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 53		
54 - 55		
<b>TOTAL</b>		

## SECTION A

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

1. Name the biggest sense organ of man's body.

.....

2. Why does a bedbug produce a very bad smell when it is touched?

.....

3. In which **one** way are animals responsible for soil erosion?

.....

4. Which element of the Primary Health Care (PHC) helps to care for expectant mothers and newly born babies?

.....

5. Identify the type of joint in the body which gives a wide range of movement.

.....

**Below is a diagram of a wheel barrow. Use it to answer question 6.**



6. How does the class of lever shown above simplify work?

.....

7. How is a Vent Pipe on a VIP Latrine useful?

.....

8. Name **one** traditional method of food preservation that does not use fire.

.....

9. Give **one** practice that can help to control the spread of cholera in a school.

.....

10. Apart from hearing, state any **one** function of the ear.

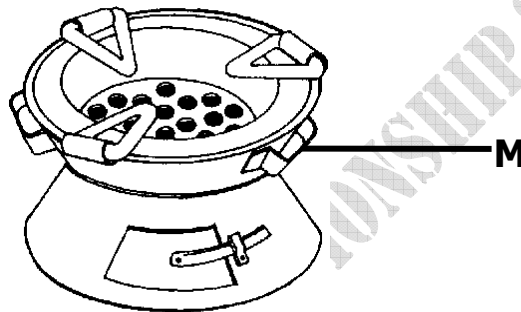
- .....
- .....
11. Name the energy resource obtained from the sun.
- .....
- .....
12. Which main body part of an insect has breathing organs?
- .....
- .....
13. Name the blood vessel which takes blood to the kidney.
- .....
- .....
14. Mention any **one** factor that affects condensation.
- .....
- .....
15. State any **one** way of reducing moisture in a poultry house.
- .....
- .....
16. Mention **one** reason why some flowers produce scent.
- .....
- .....
17. State **one** way in which soil erosion affects food production in the community.
- .....
- .....
18. State the difference between the feeding of a female anopheles mosquito and a housefly.
- .....
- .....
19. Give any **one** way in which boiled drinking water can get contaminated.
- .....
- .....
20. Give any **one** way of making an electro-magnet stronger.
- .....
- .....
21. State any **one** way in which parents can prevent scurvy from affecting their children.
- .....
- .....
22. Give any **one** way in which some plants are adapted to dry conditions.
- .....
- .....
23. Mention any **one** result of not using birth control methods by married people.
- .....
- .....

24. Why is a crocodile able to live in water and on land?

25. Give the use of a lactometer to a cattle farmer.

26. State **one** method of controlling moisture loss from soil.

**The diagram below shows a charcoal stove. Study and use it to answer questions 27 and 28.**



27. State **one** reason why part marked with letter **M** is made up of insulator.

28. State any **one** negative impact of using the charcoal stove in a confined room.

29. Why do health workers advise us to keep the grass near our homes short?

30. How does water in the body help to make digestion of food easy?

31. How is a telescope different from a microscope in terms of function?

32. By what means do ferns reproduce?

33. Apart from swallowing poison into the digestive system, state another way poison can get into a human body.

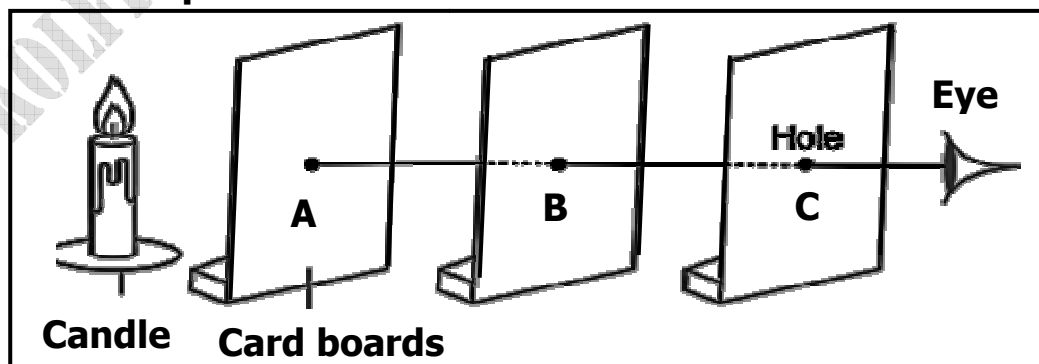
34. Why are bees able to carry pollen grains from one flower to another?  
.....  
.....
35. Give any **one** example of a carnivorous mammal which is a scavenger.  
.....  
.....
36. Name the human body system which moves the body.  
.....  
.....
37. State **one** disadvantage of depending on wood fuel as an energy source in a home.  
.....  
.....
38. Name the insect pest for maize common in maize gardens.  
.....  
.....
39. Apart from providing heat and light, give another use of electricity in a home.  
.....  
.....
40. State the importance of bacteria in food chain.  
.....  
.....

### **SECTION B**

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

41. (a) Give any **two** materials from which organic fertilizers are obtained.  
(i).....  
(ii).....  
(b) State any **two** bad effects of artificial fertilizers on soil.  
(i).....  
(ii).....

**42. The experiment below was done by the P7 candidates. Use it to answer questions that follow.**



a) What was the experiment about?

.....

b) What do you think will happen to the viewer when card **B** is slightly raised up?

.....

c) Why does light travel faster than sound?

.....

d) State any **one** importance of light in human life.

.....

.....

**43. Below is a diagram of a bird. Use it to answer questions that follow.**



(a) Why is the bird above called a bird of prey?

.....

(b) How useful is strong, sharp and hooked beak to above bird?

.....

(c) State any **two** ways in which the bird above is a problem to poultry farmers.

.....

43a) Give **one** reason why the sick and the elderly are grouped as vulnerable.

.....

(b) Apart from the sick and the elderly, mention any other **two** groups of vulnerable people.

(i).....

(ii).....

(c) Mention **one** reason why vulnerable people need special feeding.

.....

.....

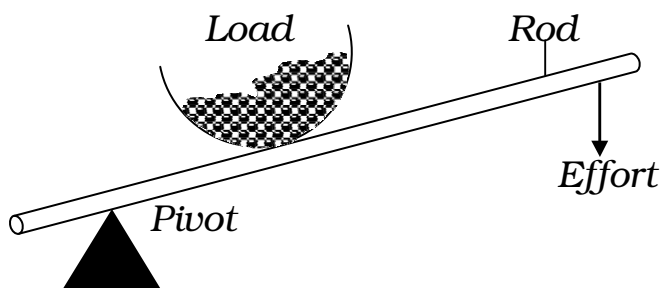
- 44 a) Name the **two** parts that a skull is composed of.
- (i).....
- (ii).....
- (b) Which **one** of the parts named above protects the brain?
- .....
- .....
- (c) State **one** way of keeping the skull strong.
- .....
- .....
- 45a) State the role of each type of bees below in a hive.
- (i) Drone bee.....
- (ii) Worker bee.....
- (b) Name the material used by bees to seal small cracks and gaps in the hive.
- .....
- .....
- (c) Give the importance of keeping bees.
- .....
- .....

**46. The table below shows diseases, the vectors that spread them and the disease-causing germs. Study and complete it correctly.**

Disease	Vector	Germ
Malaria	infected anopheles mosquito	_____
Sleeping sickness	_____	protozoa
_____	rat fleas	bacteria
Trachoma	houseflies	_____

- 47 a) State the importance of the sun to the life of plants.
- .....
- .....
- (b) Name the part of a plant which makes food for the plant.
- .....
- .....
- (c) Write the term used to mean plant response to light.
- .....
- .....
- (d) State **one** reason why mushrooms cannot make their own food.
- .....
- .....

48. Study the diagram below and use it to answer the questions that follow.



- (a) What determines the classes of levers in a machine?  
.....  
.....
- (b) What class of lever is represented in the diagram above?  
.....  
.....
- (c) Apart from the above illustrated machine, mention any **one** other example of machine grouped under the class of lever above.  
.....  
.....
- (d) How does the class of lever above simplify work?  
.....  
.....

49. The table below shows parts of a rabbit in A and that of a fish in B.

A (rabbit)	B (fish)
Ear	Fins
Fur	Gills
Lungs	Nostrils
Foot	Scales

For each of the parts of a rabbit, write the part of a fish (from B) which performs a similar function.

- (a) Ear.....
- (b) Fur.....
- (c) Lungs.....
- (d) Foot.....

- 50 (a) Write in full STIs.  
.....  
.....
- (b) Give any **two** bacterial diseases that people get through unprotected sex with an infected person.  
(i).....  
(ii).....



(c) Suggest **one** sure way a P.7 child can avoid contracting STIs.

.....  
.....

51a) What is passive smoking?

.....  
.....

(b) Give **one** reason why active smokers find it hard to leave smoking.

.....  
.....

(c) State any **two** effects of smoking to the family of a smoker.

(i).....

(ii).....

52 a) Where does urine come from to enter the urinary bladder?

.....  
.....

(b) Why are we advised not to hold urine in the bladder for long?

.....  
.....

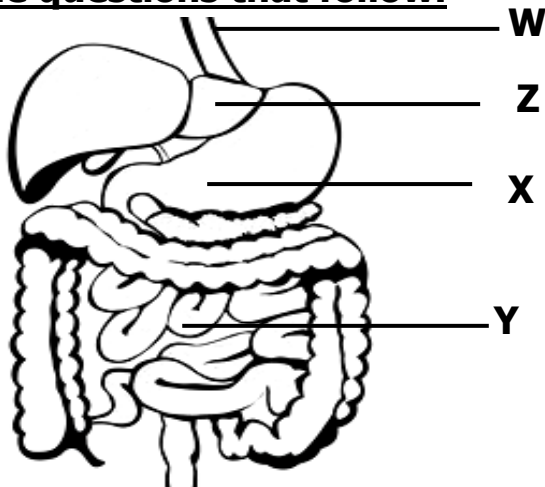
(c) Name the acid present in urine.

.....  
.....

(d) Name the path of urine out of the human body.

.....  
.....

53. **The diagram below shows a digestive system of a human being. Study and use it to answer the questions that follow.**



(a) Name the part of the system marked with letter **X** and **Y**.

(i) X.....

(ii) Y.....

(b) Which digestive juice is produced in the part marked with letter **Z**?

(c) Name the process by which food pass through the part marked with letter **W**.

54. (a) What are water impurities?

(b) Name any **one** example of microscopic water impurity.

(c) State any **one** property of water.

(d) State any **one** use of water in the body.

55. **Below is a diagram of a poultry house. Use it to answer questions below.**



a) Name the system of keeping poultry shown above.

b) State any **one** quality of a poultry house shown above.

(c) Name any **one** predator which is commonly found in the poultry house.

(d) State any **one** way of keeping predators out of a poultry house.