

# KAMPALA PARENTS' SCHOOL 2004

## PRE-MOCK EXAMINATION, 2022.

### INTEGRATED SCIENCE

### TIME: 2 HOURS 15 MINUTES

NAME: \_\_\_\_\_

SCHOOL: \_\_\_\_\_ INDEX NO: \_\_\_\_\_

#### INSTRUCTIONS

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Read the following instructions carefully.

1. This paper is made up of two Sections:  
A and B
2. Answers to both sections must be  
written in the spaces provided in full  
sentences.
3. Section A has 40 questions (40 marks)
4. Section B has 15 questions (60 marks)
5. Attempt all questions.
6. All answers must be written in blue or  
black ballpoint pen or ink but not in pencil.  
All work done in pencil, except diagrams,  
will NOT be marked.
7. Crossing out of answers will lead  
to loss of marks.
8. Any handwriting that cannot be easily  
read may lead to loss of marks.

FOR EXAMINERS USE ONLY		
QN. NO.	MARK	<u>SIGN</u>
1 - 10		
11 - 20		
21 - 30		
31 - 40		
41 - 43		
44 - 46		
47 - 49		
50 - 52		
53 - 55		
TOTAL		

**SECTION A 40 Marks**  
**Questions 1 – 40 carry one mark each**

1. Why does a bedbug produce a very bad smell when it is touched?  
\_\_\_\_\_
2. Give any one way in which flowers are important to a plant.  
\_\_\_\_\_
3. Which deficiency disease in children has these sign and symptoms: swollen moon face, brownish hair and pot belly?  
\_\_\_\_\_
4. Write one common characteristic which is common in all arachnids?  
\_\_\_\_\_
5. Why does sugar disappear when it is mixed in water?  
\_\_\_\_\_
6. Which property of air is demonstrated when air is pumped into a ball and it becomes bigger?  
\_\_\_\_\_
7. How is the absence of vitamin **D** harmful to our health?  
\_\_\_\_\_
8. What is the importance of blood platelets in the body?  
\_\_\_\_\_
9. Give one reason why a farmer should keep records of daily weather?  
\_\_\_\_\_
10. Why is proper disposal of wastes important in a home?  
\_\_\_\_\_
11. Which of the following animals: **fish, frog, lizard, rat** and **a snail** is warm blooded?  
\_\_\_\_\_

12. In the space provided below, draw a symbol of a switch



13. How type of energy is possessed by a stone resting on the table.

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14. When water is heated it changes into steam. What is this process called?

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15. Name any one example of a perennial crop.

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16. How does paddock system of grazing cattle control the spread of tick borne diseases?

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17. Give any one reason why we should wring clothes before drying them.

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18. Write down any one part which makes the stamen on a flower.

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19. Give one reason why a farmer should practice thinning of his crops.

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20. **Vultures, kites** and **crows** were found feeding on rotting meat. What group of birds are these?

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21. Give any one special characteristic of the air we breathe in?

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22. What is the function of synovial fluid in the knee joint?

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23. Give the main cause of fainting.

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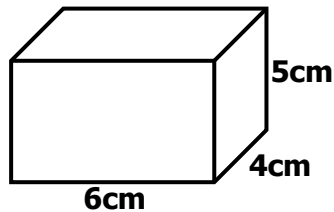
24. Mention one services provided under ante-natal care .

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25. Which blood vessel transports digested food from the ileum to the liver?

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26. The diagram below shows a chalk box. Find its **volume**.



**Study the animals given in list K and those in M. use it to answer question**

**K: FISH, BIRD, FROG**

**M: MAN, WHALE, BAT**

27. How are animals in list **K** similar to those in list **M**?

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28. What is the source of energy in thermal electricity?

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29. Why is it a bad practice for people to share a house with domestic animals?

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30. State the use of stretcher when giving First Aid to a victim with a fracture.

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31. How does a vent help to reduce smell in a VIP latrine?

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32. Write down one danger of buying drugs from local shops or markets?

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33. Name one material used to guard against electric shock.

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34. Draw prop roots in the space provided below.



35. Which body system is commonly affected by polio.

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36. State one process by which soil is formed.

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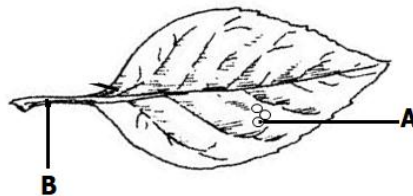
37. Give one use of an axe at home.

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38. What happens to the blood as it passes through the kidneys?

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**Use the diagram of a leaf below to answer questions 39 and 40.**



39. What is part marked **B**?

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40. Give one of the functions of the structures marked **A** on a leaf.

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### **SECTION B**

41. a) Which bone joins the elbow and shoulder?

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b) Give one example of each of the following:

i. Voluntary muscle \_\_\_\_\_

ii. Involuntary muscle \_\_\_\_\_

(c) Give one use of muscles in the human body.

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42. a) Name one vector which spreads dysentery.

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b) write down one sign of dysentery.

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c) Give any two ways of controlling and preventing the spread of dysentery.

i) \_\_\_\_\_

ii) \_\_\_\_\_

43. a) After it has rained, earthworms come out of their holes. Why do they come out?

\_\_\_\_\_

b) Give two reasons why earthworms are very important in the soil.

i) \_\_\_\_\_

ii) \_\_\_\_\_

c) Why does an earthworm die if oil is poured on its body?

\_\_\_\_\_

44. **Match items in list A with those in B by completing the table below:**

List A

List B

Heart

carbon dioxide

Kidney

sensory organ

Skin

circulation of blood

Lung

urine

(a) Heart \_\_\_\_\_

(b) Kidney \_\_\_\_\_

(c) Skin \_\_\_\_\_

(d) Lung \_\_\_\_\_

45. a) Name one vaccine which is given to the child at birth.

\_\_\_\_\_

(b) Why is it important to take children for immunization?

\_\_\_\_\_

c) Give any two ways in which a child health card is important to the parents.

i) \_\_\_\_\_

ii) \_\_\_\_\_

46. (a) How can you tell without looking at the roots, that a plant is a legume?

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(b) Give any two examples of crops which are legumes.

i) \_\_\_\_\_

ii) \_\_\_\_\_

(c) How do legumes increase the fertility of the soil?

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47. (a) In which part of the plant does photosynthesis mainly take place?

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(b) Name two raw materials which enable photosynthesis to take place?

i) \_\_\_\_\_

ii) \_\_\_\_\_

(c) State one way in which photosynthesis is useful to animals.

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48. Use the list of food stuffs given below and answer the following questions:

**BEANS, RICE, CABBAGE, MILK, ORANGES**

(a) Give two food stuffs that are a source of proteins.

i) \_\_\_\_\_

ii) \_\_\_\_\_

(b) How are cabbages useful in one's diet?

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(c) Why would you regard a list of the foods given above a balanced diet?

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49. (a) what do we call a mixture of two or more metals?

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(b) Give one example of a common mixture of metals.

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(c) How does heat move from one point to another in a metal?

(d) Apart from painting, give any other method of preventing a metallic object from rusting.

50. **Use the diagram below to answer questions that follow.**



a) How is the seed in the diagram above dispersed?

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

(c) State two advantages of seed dispersal.

i) \_\_\_\_\_

51. a) Give two ways in which sound can be stored.

i) \_\_\_\_\_

ii) \_\_\_\_\_

b) Identify two ways in which stored sound can be useful to people.

i) \_\_\_\_\_

ii) \_\_\_\_\_

52. a) Mention any two methods of making magnets.

i) \_\_\_\_\_

ii) \_\_\_\_\_

(b) Suggest any two ways of destroying a magnet.

i) \_\_\_\_\_

ii) \_\_\_\_\_

53. a) State any three functions of blood in human body.

i) \_\_\_\_\_

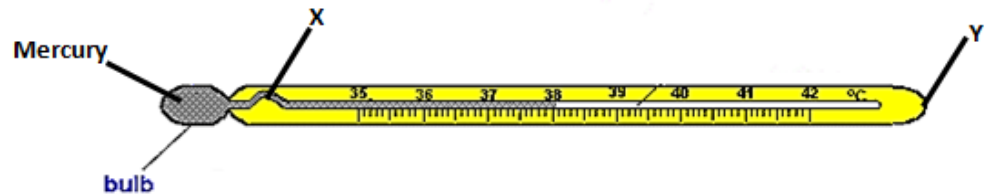


ii) \_\_\_\_\_

iii) \_\_\_\_\_

b) How can one increase the volume of blood in the body.

54. Below is a diagram of a clinical thermometer. Use it to answer questions that follow:



(a) Name the parts labeled **Y** and **X**.

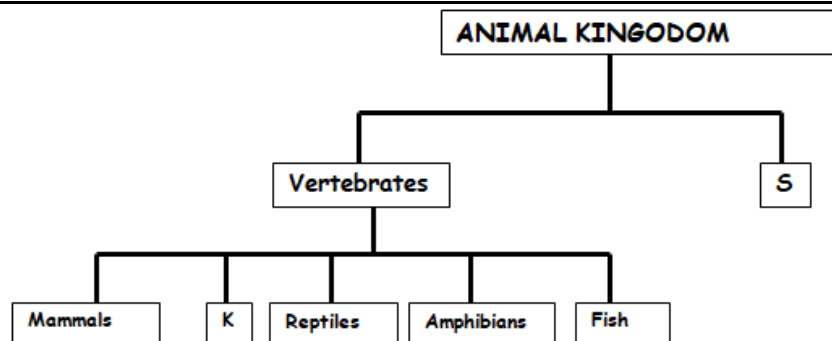
i) Y \_\_\_\_\_

ii) X \_\_\_\_\_

(b) Identify the importance of part marked **X**.

(c) Apart from the tongue, mention any one part of the human body where the clinical thermometer can be placed when measuring body temperature.

55. The table below shows the classification of animals. Use it to answer questions that follow.



(a) Name the group of animals marked:

i) S \_\_\_\_\_

ii) K \_\_\_\_\_

(b) Give one example of animals in each of the following groups.

i) Molluscs \_\_\_\_\_

ii) Arachnids \_\_\_\_\_