**KAMPALA URBAN SCHOOLS**

**BEGINNING OF FEBRUARY EXAMINATIONS, 2024**

**PRIMARY SEVEN INTEGRATED SCIENCE**

**NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_STREAM: \_\_\_\_\_\_\_**

**SECTION A**

1. What is adolescence?

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1. Name one-night insect pollinator of flowers.

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1. How do farmer care for their crops in the dry season?

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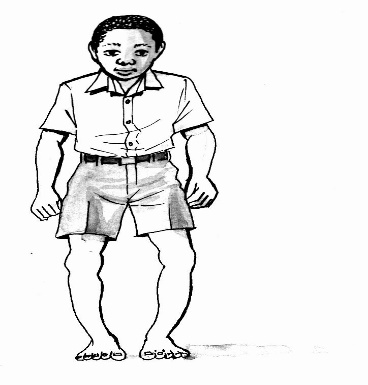
1. Apart from the queen bee, give one other member of a bee colony.

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1. By what process do plant roots absorb water from the soil?

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1. What food nutrient is lacking in the body of a child whose diagram is shown.



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1. Mention one method of preserving milk.

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1. Why can’t mushrooms make their own food?

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1. How does yeast reproduce?

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1. Which body organ is protected by the skull?

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1. **In the space provided below, draw a compound leaf.**
2. Oponyo has severe diarrhoea which has lasted a week. How can this condition be treated?

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1. Explain one advantage of grafting as a method of plant propagation.

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1. Name one part found on the thorax of an insect.

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1. Maria got a contract of supplying eggs to Hotel Africana. What type of chicken should she rear?

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1. How is the endosperm of a maize grain similar to the cotyledon of a bean seed in terms of function?

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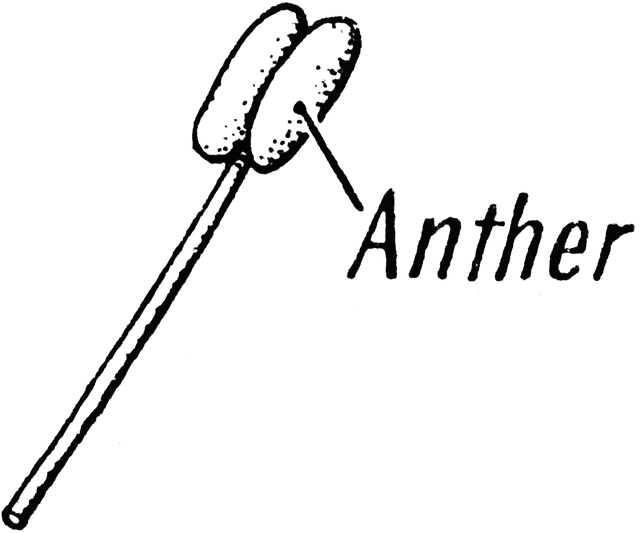
1. How is soap useful in promoting personal hygiene?

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1. How can infants acquire immunity?

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**The diagram below shows part of a flower.** Use it to answer question 19.



Filament

1. How is the above part important in the reproduction of a plant?

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1. Identify one layer of a soil profile.

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1. Give one example of a PIASCY message.

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1. Most farmers who keep local cattle rear bullocks. Give a reason for this practice.

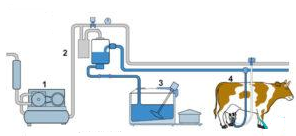
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In which part of the digestive system of mammals does chemical digestion end?

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1. Why does most of the photosynthesis process take place during day time?

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1. Besides the method of milking shown below, state another method of milking cows.

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1. Name one respiratory disease immunized against using the DPT vaccine.

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1. Mention one activity that primary six pupils should do to promote personal hygiene.

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1. Why would it be dangerous to fill oxygen in fire extinguishers?

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1. Who is a “casualty” in relation to human health?

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1. Give one role of a father at home.

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1. Name one example of root crops.

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1. Why is silk said to be a resource?

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1. Why do you iron school uniforms?

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1. Why would one encourage community members to harvest rain water?

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1. Name the basic unit of measuring the mass of an object.

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1. Give one cattle disease caused by a protozoon.

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1. State one example of a heat insulator.

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**Study the diagram below and answer questions 38**.



**Metallic ruler**

**Hot water**

**S**

1. By what process does heat travel from the hot water to point S on the ruler.

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1. Why do crop farmers dislike caterpillars?

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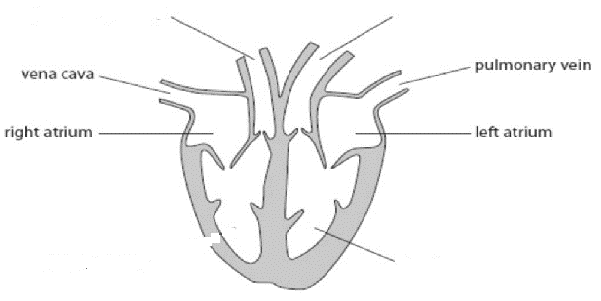
1. Give the importance of the Stevenson’s screen at a weather station.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**SECTION B (60 MARKS)**

1. The diagram below is of a mammalian heart.

**B**



**C**

**A**

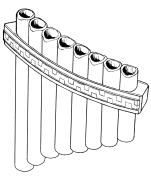
(a) What is the main function of the heart?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) Name the parts marked A and C

A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_C\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(c) Use arrows to show the flow of deoxygenated blood through the heart drawn above.

1. (a) **The diagram shows a musical instrument.**

**1**

**8**

1. To which group of musical instruments does it belong? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Why does pipe 8 above produce sound of the highest pitch?

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(b) Calculate the volume of the figure below. (2mks)

3cm

2cm

6cm

1. (a) What is seed dispersal?

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(b) State the agents of seed dispersal for the following seeds/fruits.

**iii**

**i**

**ii**

(i)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(ii)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(iii)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **The diagram below shows immunization schedule table. Use it to answer the questions that follow.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Disease** | **Vaccine** | **Age** | **Site** |
| Polio | \_\_\_\_\_\_\_\_\_\_\_\_\_\_ | birth | Mouth |
| \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Measles vaccine | 9 months | left upper arm |
| Diphtheria | DPT | 6 weeks, 10 weeks | \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Tuberculosis | BCG | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Right upper arm |

1. (a) What is firs aid?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) Why should an accident victim be given first aid as soon as possible?

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(c) Give one use of the following items when giving first aid:

(i) splints\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(ii) methylated spirit \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. (a) What is Apiculture? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) How are drone bees useful in a bee colony?

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(b) Write down two duties of worker bees in a hive.

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

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

1. (a) List down two examples of non-communicable diseases.

(i)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (ii)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) Give one way of preventing non-communicable diseases in our society.

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(c) Name one disease spread through open cuts and wounds.

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1. (a) Give the importance of the following body organs.
2. Heart: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Lungs \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Kidneys:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Skin:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. **The diagram below shows two people. Use it to answer the given questions.**



**W**

**M**

1. Who of the two people above is vulnerable?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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1. How is a wheel chair important to person M?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. State one way of caring for person W at home.

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1. (a) Why are squirrels said to be crop pests?

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(b) Give two ways by which farmers can control crop pests.

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

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

(c)Give one effect of crop pests.

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1. **(a) Match the weather instruments to their uses correctly.**

**Weather instrument use**

Rain gauge shows direction of wind

Hygrometer measures air pressure

Wind cock measures the amount of rainfall

Barometer measures humidity

**Weather instrument use**

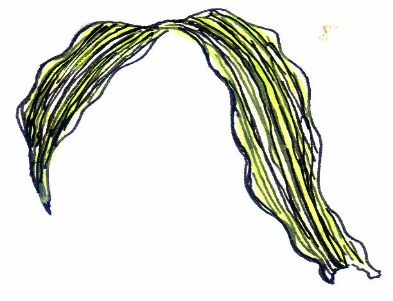
Rain gauge \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hygrometer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Wind cock \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Barometer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Study the diagram of the leaf below and use it to answer the following questions.**



(a) Name the type of leaf venation shown.

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(b) In which group of flowering plants do we find such a leaf?

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c) Outline two uses of leaves to people.

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

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

1. **(a) Fish is perishable food and therefore needs to be preserved.** Mention two ways of preserving it.

(i)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_(ii)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

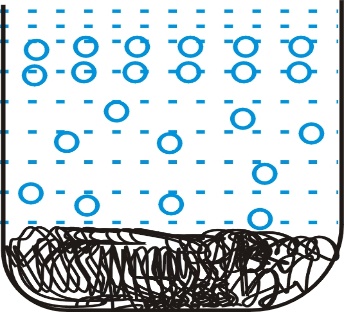
(b) How can food get contaminated?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(c) Why should one wash hands before serving food?

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



**Lump of soil**

**Air bubble**

**Water**

(a) What does the experiment above prove about soil?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(b) Name one soil organism.

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(c) How is soil useful to man?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

(d) Apart from air, give one other inorganic component of soil.

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1. **The pictures below show people smoking shisha.**



(a)What type of smoking is shown above?

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(b) Apart from shisha, name any one other drug commonly abused in our society.

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(c) State one danger such people are likely to experience.

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(d)How can you help such friends to avoid the danger mentioned above?

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