

# KARIBU INTERNATIONAL SCHOOLS

## END OF TERM ONE 2024

### PRIMARY SEVEN

#### INTEGRATED SCIENCE

#### *MARKING GUIDE*

**Name: KULOB A CYRUS**

**Read the following instructions carefully:**

1. The paper has **two** sections: **A** and **B**
2. Section **A** has 40 questions (40 marks)
3. Section **B** has 15 questions (60 marks)
4. Answer **ALL** questions. All answers to both Sections **A** and **B** must be written in the spaces provided.
5. All answers must be written using a blue or black ball point pen or ink. Diagrams should be drawn in pencil.
6. Unnecessary crossing of work may lead to loss of marks.
7. Any handwriting that cannot be easily read may lead to loss of marks.

***Turn over***

## SECTION A: 40 MARKS

Questions 1 to 40 carry one mark each

1. Name the gas that accumulates in the atmosphere as plants try to make their own food.  
✓ **Oxygen**
2. Mention any **one** non-infectious respiratory disease.  
✓ **Lung cancer**
3. Give **one** reason why a person who has taken poison be given plenty of cold milk to drink.  
✓ **To dilute poison**
4. How are gases similar to liquids as states of matter?  
✓ **Both liquids and gases have no definite shapes.**  
✓ **Heat travels through liquids and gases by convection.**
5. How is a switch important in electric circuit?  
✓ **A switch breaks or completes the circuit at one's will.**
6. Apart from wet salting, state any **one** other method used to preserve food.  
✓ **Refrigerating**  
✓ **Canning**  
✓ **Freezing**  
✓ **Vacuum packing**  
✓ **Sugaring**
7. How is the canine tooth adapted to its function?  
✓ **It has a sharp pointed enamel for easy biting and tearing food.**  
✓ **It has a sharp pointed enamel for tearing food.**

8. Identify the type of weather that can lead to expansion of railway lines.  
✓ **Sunny weather**
9. Name any **one** disease that affects both poultry and rabbits.  
✓ **Coccidiosis**  
✓ **Pneumonia**
10. How can salt be obtained from salt solution?  
✓ **By evaporating to dryness**  
✓ **By heating to dryness**  
✓ **Evaporation to dryness**  
✓ **Heating to dryness**
11. Give **one** example of arachnids.  
✓ **A spider**  
✓ **Tick**  
✓ **Scorpions**  
✓ **Mite**
12. Mention the skeletal and muscular system disease that can be controlled by basking in the sunshine.  
✓ **Rickets.**
13. State **one** activity done by P.7 children to promote oral hygiene.  
✓ **Regular brushing of teeth**  
✓ **Rinsing the mouth**  
✓ **Dental flossing**
14. Calculate the density of an object whose mass is 15g and volume 5cc.

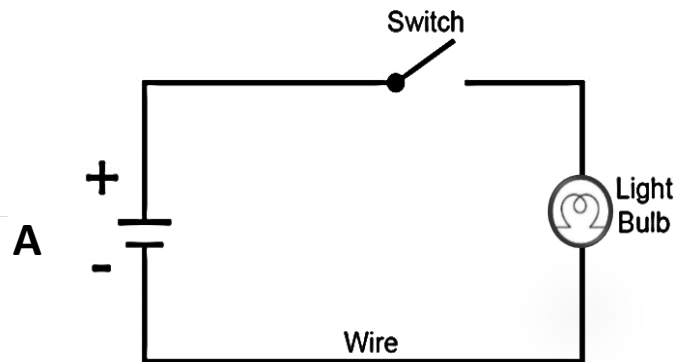
$$\text{Density} = \frac{\text{mass}}{\text{Volume}}$$

$$\text{Density} = \frac{15\text{g}}{5\text{cc}}$$

$$\text{Density} = 3\text{g/cc}$$

15. The diagram below shows an electric circuit. Use it to answer questions

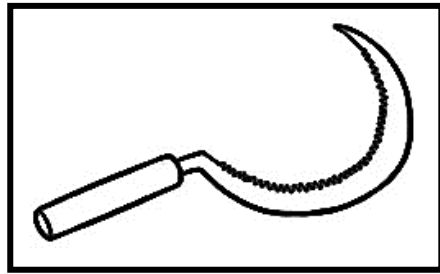
16 and 17



16. Name the form of energy possessed by dry cell **A**.  
✓ **Electrical energy**
17. What energy changes take place at **A** when the circuit is completed?  
✓ **Chemical energy changes to electrical energy**
18. Give **one** way children contribute to environmental degradation.  
✓ **Through burning the bush**  
✓ **Through burning the polythene papers and plastics**  
✓ **Improper disposal of plastic scraps**  
✓ **Improper disposal polythene papers**
19. Besides miscarriage, give any **one** other effect of smoking to an expectant mother.  
✓ **Smoking leads to premature birth.**  
✓ **Smoking leads to birth of underweight babies.**
20. Why are pupils encouraged to have a good body posture?  
✓ **To prevents body ache at older age**  
✓ **To prevents bone deformation**  
✓ **To prevents indigestion of food.**

21. Name the part of an insect where the legs are attached.  
✓ **Thorax**
22. Which advice would you give for a child with indigestion?  
✓ **Chewing food properly**  
✓ **Avoid eating too much food.**  
✓ **Avoid eating hurriedly**  
✓ **Eating well cooked food**  
✓ **Avoid eating oily foods**
23. Give **one** factor considered before sorting clothes for cleaning.  
✓ **Dirt intensity**  
✓ **Intensity of dirt**  
✓ **Colour of the cloth**  
✓ **Nature of the fabric**
24. Why do most farmers prefer keeping local breeds to exotic breeds?  
✓ **They are more resistant to diseases than exotic breeds.**  
✓ **They are not easily attacked/ affected by diseases as exotic breeds.**  
✓ **They withstand harsh weather conditions than exotic breeds.**
25. What do we call the mixture of gases in motion?  
✓ **Wind**
26. Mention the property of a magnet that enables a magnetic compass to work.  
✓ **A freely suspended bar magnet rests in the north-south direction.**

27. In the space below, draw a tool used for harvesting cereals like rice.



28. Give **one** activity done by farmers to reduce the rate of transpiration while planting banana suckers.
- ✓ **Cutting leaves of banana suckers**
29. Kauma picked a bottle of cold water from the refrigerator. After 2 minutes, she saw droplets of water on the surface of the bottle. Give a reason for that observation.
- ✓ **Warm air in the surrounding gets into contact with the cold surface and condenses into water droplets**
  - ✓ **The air around the bottle condensed to form water droplets.**
  - ✓ **Due to condensation of air around the bottle to form water droplets**
30. Why is it not advisable to put out fire caused by petrol using water?
- ✓ **Water contains oxygen which supports burning**
  - ✓ **Water has oxygen which supports burning**
31. How important is debeaking in poultry management?
- ✓ **Controls egg eating**
  - ✓ **Controls feather pecking**
  - ✓ **Controls cannibalism**
- OR**
- ✓ **Controls poultry vices**

32. How do birds like ducks and geese overcome the coldness in water?  
✓ **Their skin has many oil glands that produce oil which keeps them waterproof.**
33. State the normal body temperature in human beings.  
✓ **37° C / 98.6° F**
34. Nakisuyi drowned in water. She was given first aid immediately by Kawongolo.  
Why is this statement scientifically wrong?  
✓ **A drowned person is already dead.**
35. Give **one** example of a non-biodegradable waste in the environment.  
✓ **Polythene papers**  
✓ **Plastics**  
✓ **Waste oils**  
✓ **Metals**
36. State any **one** structural difference between a vein and an artery.  
✓ **A vein has a wider lumen while artery has a narrow lumen.**  
✓ **A vein has valves while an artery has no valves.**  
✓ **A vein has thin elastic muscles while an artery has thick elastic muscles.**
37. Give any **one** example of a germ that may cause diseases.  
✓ **Virus**  
✓ **Bacteria**  
✓ **Protozoa**  
✓ **Fungi**
38. How does freezing help in the preservation of fish?  
✓ **Freezing makes bacteria dormant.**  
✓ **Freezing makes bacteria inactive.**
39. Mention the dangerous substance found in tobacco that causes addiction.  
✓ **Nicotine**

40. Give a reason why Mbuga a P.6 pupil will fail to find the volume of a cassava using the formula  $L \times W \times H$ .
- ✓ **Cassava has an indefinite shape.**
  - ✓ **Cassava is an irregular object.**
  - ✓ **Cassava has an irregular shape.**

### **SECTION B: 60 MARKS**

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

41. (a) Where in the body does respiration takes place?
- ✓ **In the body cells**
- (b) Name any two raw materials used by human body for respiration.
- ✓ **Digested food**
  - ✓ **Oxygen**
- (c) How do plants make use of the gas produced by animals during respiration?
- ✓ **Plants use carbon dioxide as a raw material during photosynthesis**
42. (a) Write P.H.C in full.
- ✓ **Primary Health Care**
- (b) Name the element of P.H.C promoted by the following:
- (i) Cleaning water sources.
    - ✓ **Water and sanitation**
  - (i) Feeding on a balanced diet.
    - ✓ **Food and nutrition**



(c) Write **one** principle of P.H.C.

- ✓ **Full participation of community members**
- ✓ **Prevention is better than cure.**
- ✓ **PHC activities should be affordable.**
- ✓ **Total health for all**
- ✓ **PHC should be accessible**

43. The list below shows animals. Use it to answer the questions that follow:

A	B	C	D
TILAPIA	FROG	PUFF ADDER	CROCODILE

(a) Apart from laying eggs, give **one** similarity between animals **A** and **B**

in the way they reproduce

- ✓ **Both animal A and animal B reproduce by laying eggs.**

(b) Which of the animals above moves by slithering?

- ✓ **Puff adder**

(c) To which group of vertebrates do animals **A**, **B** and **D** belong?

- ✓ **Cold blooded vertebrates (poikilothermic)**

(d) Name the common habitat for animals **A**, **B** and **D**

- ✓ **Water body**

44. (a) Which device transforms the kinetic energy of flowing water to electricity?

- ✓ **Generator**

(b) Mention the type of electricity obtained in that way.

- ✓ **Current electricity**

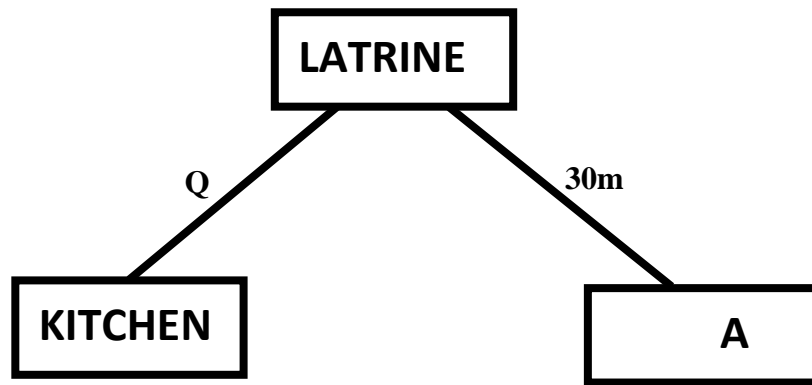
(c) How does this kind of electricity reach a customer in Iganga?

- ✓ **Through transmission lines**
- ✓ **Through electricity transmission lines**

(e) State the major cause of a short circuit.

- ✓ **When bare wires carrying current get into contact**
- ✓ **When bare wires carrying electricity meet**
- ✓ **When naked wires carrying current get into contact**
- ✓ **When naked wires carrying electricity meet**

45. Construction of a latrine is one way of maintaining or improving sanitation at school. Use the diagram below to answer the questions that follow.



(a) Name any **one** item that is constructed at point **A**.

- ✓ **Water source**

(b) What is the recommended distance from the kitchen to the latrine?

- ✓ **At least 10 metres**

(c) Give **two** diseases that may break out due to the absence of a latrine in a school community.

- ✓ **Cholera**
- ✓ **Diarrhoea**
- ✓ **Typhoid**
- ✓ **Dysentery**

46. (a) Name any one example of a modern bee hive.

- ✓ **Top bar hive**
- ✓ **Box hive**
- ✓ **Tin hive**

(b) State the role played by a queen bee in the bee hive.

- ✓ **Lays fertilized eggs.**

(d) Give **one** enemy of bees.

- ✓ **Honey badgers**
- ✓ **Safari ants**
- ✓ **Wax moth**
- ✓ **Termites**
- ✓ **Wasps**
- ✓ **Wax beetles**
- ✓ **Mocking birds**
- ✓ **Red ants**
- ✓ **Hive beetles**

(e) What is the importance of smoke during honey harvesting?

- ✓ **Smoke calms down bees during harvesting**
- ✓ **Smoke makes bees dormant**

47. (a) Give the meaning of the term **Magnet**.

- ✓ **Magnet is a material which attracts other magnetic materials.**
- ✓ **Magnet is a material which has the ability to attract other magnetic materials.**
- ✓ **Magnet is a material which has the capability to attracts other magnetic materials.**

(b) Name the metal which makes the strongest magnet.

✓ **Iron**

(c) Write the property of a magnet which may enable you to find direction.

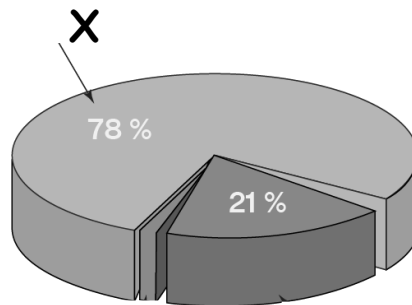
✓ **A freely suspended magnet rests in North - South direction.**

(d) How is a magnet useful to a doctor?

✓ **Doctors use magnets to remove magnetic foreign bodies from people's eyes**

✓ **Doctors use magnets to remove magnetic foreign bodies from people's wounds**

48. The pie chart below shows some of the components of air in the atmosphere. Use it to answer the questions that follow.



(a) Name the gas with the composition of 21%

✓ **Oxygen**

(b) How is gas marked X useful in the environment?

✓ **Nitrogen is used in artificial inseminators.**

✓ **Nitrogen is used by legumes to make proteins**

✓ **Nitrogen is used in the manufacture of ammonium fertilizers**

(c) Mention the process in plants which uses carbon dioxide.

✓ **Photosynthesis**

(d) State **one** condition necessary for the process named in (c) above to take place.

- ✓ **Presence of sunlight**
- ✓ **Presence of chlorophyll**

49. (a) What is a resource?

- ✓ **Is anything in the environment that can satisfy man's needs**
- ✓ **Is anything in the environment that man can use to satisfy his needs**

(b) Give the reason why plants are called living renewable resources.

- ✓ **Plants have life and can be replaced naturally reduced in nature.**

(c) Apart from recycling, give any **one** way of conserving non renewable resources.

- ✓ **By using alternative sources of energy other than non-renewable resources**
- ✓ **By using renewable resources like solar energy and biogas instead of non-renewable resources**
- ✓ **By harvesting and using them sparingly.**

(d) How does bush burning contribute to the removal of top soil?

- ✓ **Bush burning leaves the soil bare exposing it to agents of soil erosion.**
- ✓ **Bush burning leaves the soil bare hence exposing it to agents of soil erosion.**

50. (a) Give the difference between **heat** and **temperature**.

- ✓ **Heat is a form of matter that cause rise in temperature while temperature is the degree of hotness or coldness of an object or a place.**

(b) Apart from Celsius scale, mention the other scale used on a thermometer.

✓ **Fahrenheit scale**

(c) Convert  $0^{\circ}\text{C}$  to  $^{\circ}\text{F}$ .

$$^{\circ}\text{F} = (9/5) \times \text{C} + 32$$

$$^{\circ}\text{F} = (9/5) \times 0 + 32$$

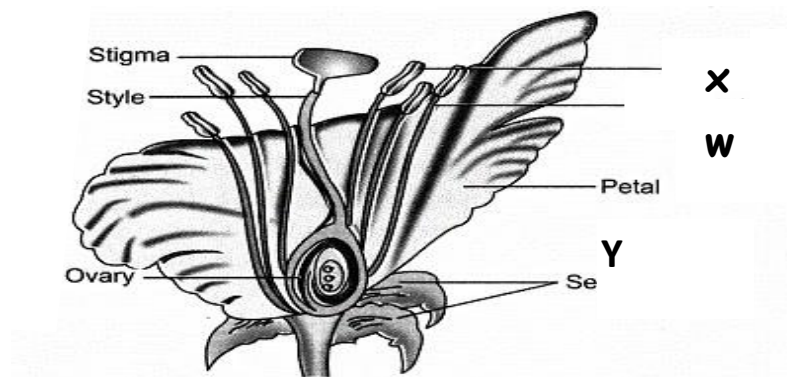
$$^{\circ}\text{F} = 0 + 32$$

$$^{\circ}\text{F} = 32$$

Therefore,

$$0^{\circ}\text{C} = 32^{\circ}\text{F}$$

51. The diagram below is a part of a plant. Use it to answer the questions that follow.



(a) Name the parts marked

**X - Anthers**

**W - Filament**

(b) Why is part marked **Y** brightly coloured?

✓ **To attract pollinators**

✓ **To attract insect pollinators**

(c) Give a reason why self-pollination is likely to take place on a plant with such a flower.

✓ **The female and male parts of a flower are found in the**

**same plant**

52. (a) What is a joint?

✓ **A joint is a point where two or more bones meet in the body.**

(b) State the substance in the human body that helps to reduce friction around the movable joints.

✓ **Synovial fluid**

✓ **Cartilages**

(d) Write **two** examples of antagonistic muscles.

✓ **Biceps and triceps muscles**

✓ **Quadriceps and hamstrings**

✓ **Calf muscles and pectoral/ masseter muscles**

✓ **Abductor and adductor muscles**

53. (a) How is sound written on a piece of paper reproduced?

✓ **By singing**

✓ **By reading**

(b) Mention **one** way of storing sound.

✓ **By recording**

✓ **By writing notations**

(c) Name **two** devices used to reproduce sound.

✓ **Digital Video Discs (DVD)**

✓ **Record player**

✓ **Video disc players**

✓ **Mobile phones**

54. The diagram below is of an aquatic animal. Use it to answer the questions that follow.



**T**

**(a)** Name the part labelled **Q**

✓ **Lateral line**

**(b)** State the function of the part marked **T**.

✓ **Covers the gills**

**(a)** Name the deficiency disease controlled by feeding on the above aquatic animal.

✓ **Kwashiorkor**

**(b)** How does the above aquatic animal help in the control of malaria?

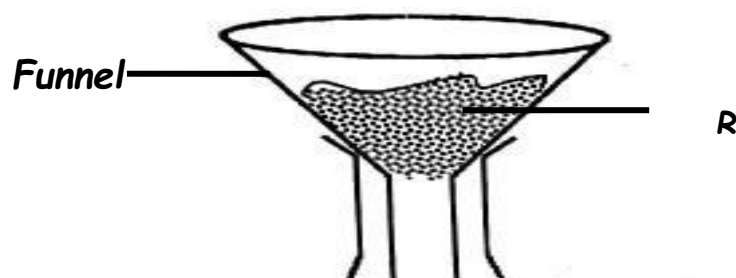
✓ **By feeding on the larva stages of mosquitoes**

✓ **By feeding on the mosquito larvae**

✓ **By feeding on the larva stages of mosquitoes hence destroying their lifecycles**

✓ **By feeding on the mosquito larvae hence destroying their lifecycles**

55. The diagram below shows a method of making water clean. Study and use it to answer questions that follow.





*T*  
*T*

a) Identify the method of making water clean shown in the above diagram  
✓ **Filtration method**

b) Name the substances marked R and T  
✓ **R-Residues**  
✓ **T- filtrate**

c) Name one activity at home that uses the above method.  
✓ **Filtering tap water with impurities**  
✓ **Filtering cooking oil with impurities**  
✓ **Water treatment**  
✓ **Sewage treatment**

***PASSING IS PLANNED BUT NEVER BY INCIDENCE***