

**KIYALA HIGH SCHOOL**  
**END OF TERM ONE ASSESSMENT TEST -2024**  
**CHEMISTRY**  
**Paper 1 Theory**  
**S.2**

**2 Hours 30 minutes**

**INSTRUCTIONS**

- This paper consists of **four** examination items. It has **two** sections; **A** and **B**.
- Answer **all the items** in both sections.
- Use of **illustrations and drawings** will earn you more scores.

**SECTION A**

*Attempt **all** items in this section.*

**Item 1**

Katongole Ricky wanted to celebrate his birth day with well inflated decorated balloons, he decided to inflate all the balloons 3 days prior to the birthday and kept all of them in one room. Early in the morning on the birthday, he wanted to do the decoration but found when all the balloons had shrunk (reduced in size), this greatly left him wondering how that happened.



***Task***

As a senior **two (2)** who now understands kinetic theory of matter, clearly state it and advise Ricky on why that happened. **(06 scores)**

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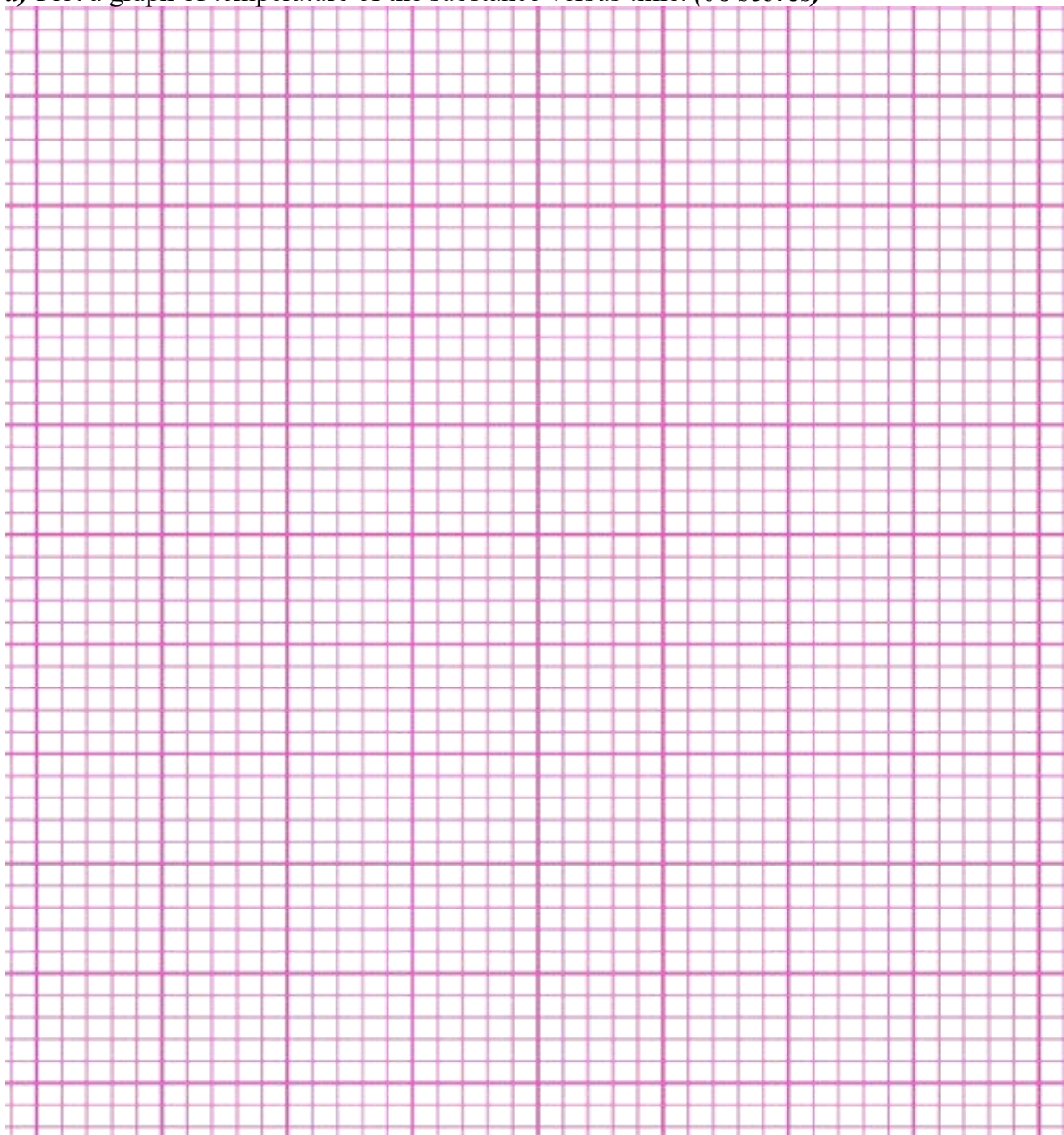
**Item 1**

During an experiment to investigate what happens when solid substance P is heated by senior one students.

Doreen's group obtained and recorded the following results of temperature changes together with time taken.

<b>Time (minutes)</b>	0	1	2	3	4	5	6	7	8	9	10	11	12
<b>Temperature (°C)</b>	-10	0	0	10	20	30	40	50	60	80	80	80	90

**a)** Plot a graph of temperature of the substance versus time. **(06 scores)**



**b)** Use the graph to determine the;

**i)** Freezing point of the substance **P**.

**(01 score)**

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**ii)** Boiling point of substance **P**.

**(01 score)**

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**c)** Draw and comment on the arrangement of particles of substance **P** at;

**i)**  $-10^{\circ}\text{C}$

**(06 scores)**

ii) 90<sup>0</sup>C

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iii) 20<sup>0</sup>C

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d) Akello a senior one student washed her school uniform and hanged them in a line. Unfortunately, the weather became too cold. Immediately Akello was worried a lot about what she will put on tomorrow at school because she knew that the school uniform will not get dry.



**Task**

Help Akello to clear off her doubts and worries.

**(06 scores)**

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**Item 3**

A laboratory in a school is closely related to a kitchen in home. Suggest the major role of;

a) i) Laboratory in school.

**(01 score)**

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iii) Kitchen in home.

**(01 score)**

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b) complete the table below by naming related tools in both laboratory and kitchen that are used for the same purpose, in each case state what the pair is used for.

(08 scores)

<i>Laboratory</i>	<i>Kitchen</i>	<i>Use</i>
	Spoon	
Beaker		
	Mingling stick	For steering.
		For cooking and lighting.
Weighing scale.		Measuring mass of substances.

c) There has been a common fire outbreak in schools which has got property blazing in flames.

i) Name the two types of flames with which property burns, labeling one as X and the other as Y (02 scores)

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ii) give *two* (2) structural differences between X and Y. (02 scores)

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## SECTION B

Answer **all** items in this section.

### Item 4

A river is one of the natural sources of water we use. In your local community, some people stay near this river and the tap water people use from your area is extracted from this river but due to some human activities the water is highly polluted and now people are worried and have stopped using even the tap water.

#### **Task.**

Make a write up you would use in order to clear up your people's worry's And in your write up, explain to them how the water from the river is formed. (20 scores)

**Best wishes from Solomon**