KIYALA HIGH SCHOOL

MID-TERM TWO ASSESSMENT TEST 2024

CHEMISTRY

S.1

Time: *2 Hours*

INSTRUCTIONS:

- ➤ This paper consists of three assessment items.
- ➤ Section **A** has two c*ompulsory* item.
- ➤ Section **B** has *one* items
- ➤ Attempt *all the items* in both sections.
- ➤ Use of *illustrations* and *drawings* will earn you more scores.
- ➤ Any additional item answered will not be *scored.*

SECTION A

Answer the **item** *in this section*

Item 1

Akello always washes her clothes at any time of the day but they can still dry weather on a sunny, cloudy, windy day or even inside the house.

Task

a) Explain why clothes dry.
   i) Inside the house.   *(3 scores)*

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   ii) On a sunny day.   *(3 scores)*

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iii)   On a windy day.   *(3 scores)*

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b)

   i)   Explain the process of rain formation using the idea of different states of matter.

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                                                                                                   (6 scores)

   ii)   What are the importance of water to man?

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Item 2

According to research, most of the chemists have reviled that chemistry plays a great role in society today but has also contributed negatively.

Task

As a student of chemistry;

   a) Provide an evidence to support the above statements.   *(6 scores)*

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b) Giving examples, identify *five* sectors where chemistry plays an import role in Uganda's economy. *(10 scores)*

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c) Name any *four* products used in our daily life obtained from the knowledge of chemistry.

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(4 scores)

Item 3

A senior one student curried out an experiment on substance **X** and obtained the following results.

Time (s)	0	15	30	45	60	75	90	105	120	135	150	165	180
Temp. (∘c)	100	93	85	78	78	78	78	60	43	25	25	25	10

Task

   a) Plot a graph of temperature versus time for the above results.   *(10 scores)*

   b) Use your graph to determine the;
      i)   Melting point of substance **X**.   *(1 score)*
      ii)   Boiling point of substance **X.**   *(1 score)*

   c) Draw the arrangement of particles of substance X at;
      i)   20 seconds.   *(2 scores)*
      ii)   140 seconds.   *(2 scores)*
      iii)   100 seconds.   *(2 scores)*

   d) Using the idea of moving particles, explain why it is easy to pour a liquid.

Compiled by Solomon.